CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, October 28, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(denotes that this work is advertised in Engineering News.)*

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	See issue.
10-30	Water system, Hingham, Mass. (S.)	10-14
11- 5	*Quarters, Ft. Du Pont, Del.	10- 7
11- 5	*Water system, Cincinnati, O. (S)	10-21
11- 6	Seawall, dredging, Norfolk, Va., (S.)	10-21
11- 6	Water supply, Wash. D. C. (S.)	10-21
11- 6	Paving, Charleston, S. C. (S.)	10-21
11- 6	Cistern, Key West, Fla. (S.)	10-14
11- 6	*Removing bridge, Peoria, Ill. (P. & S.)	10-28
11-10	*Pumping engine, Dallas, Tex. (S.)	9-23
11-10	*Steel pipe, Toronto, Ont. (S.)	10-28
11-20	Dredging, Charleston, S. C. (S.)	10-21
11-20	Generating set, Wash., D. C. (S.)	10-21
11-27	Pneumatic system, Charleston, S. C. (S.)	10-28
12- 1	*Heating, ventilating, New Zealand (P. & S.)	9- 9
1-17	*Irrigation work, Porto Rico. (S.)	10-21
1-18	Dry-dock, New York. (S.)	10-21

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

10-30 Generator sets, Boston, Mass.... 10- 7
11- 1 General works, Bracebridge, Ont. 10-21
11- 1 Power-house, Quincy, Fla. 10-28
11- 1 Electric fixtures, Portland, Me. 10-28
11- 2 Franchise, Chico, Cal. 10-21
11- 2 Elec. light plant, Ackerman, Miss. 10-21
11- 2 Lighting, Bridgeton, N. J. 10-21
11- 3 Gas lamps, New Haven, Conn. 10-28
11- 4 Elec. equipment, Philadelphia Pa 10-28
11- 5 *Motors, pumps, etc., Spokane, Wash. 10-21
11- 8 Condensers, etc., Richmond, Va. 10-21
11- 8 *Lighting fixtures, etc., Port H. G. Wright, N. Y. 10-21
11- 8 Electricity, Savannah, Ga. 10- 7
11- 8 *Elec. light plant, Orange, N. J. 10-28
11- 9 *Elec. lighting system, Fort Du-pont, Del. 10-14
11-10 *Elec. lighting system, Whipple Barracks, Ariz 10-21
11-15 Lighting streets, San Diego, Cal. 10-28
11-20 Generating set, Wash., D. C. 10-21

BRIDGES.

10-30 Bridges, Richmond, Ind. 10-21
10-30 Abutments, Indianapolis, Ind. 10-21
10-30 Bridge, Sherbrooke, Que. 10-21
10-30 Superstructure, Bucyrus, Ohio. 10-21
10-30 Bridge, Sullivan, N. Y. 10-28
11- 1 Bridge, Riverton, Utah. 10-28
11- 1 Bridge, etc., Leavenworth, Kan. 10-28
11- 1 *Bridge repair, Burlington, Iowa. 10-28
11- 1 Bridge, Cayuga, Miss. 10-28
11- 1 Bridge, Fairburn, Ga. 10-28
11- 1 Bridge, Galena, Mo. 10-21
11- 1 Bridge, Lester Manor, Va. 10-21
11- 1 Substructure, etc., Circleville, O. 10-21
11- 1 Bridge, Brazil, Ind. 10-21
11- 1 Bridge, Vernon, Ind. 10-21
11- 2 Bridge, Decatur, Ind. 10-21
11- 2 Bridge, Phoenix, Ariz. 10-14
11- 2 Bridge, Purvis, Miss. 10-28
11- 2 Bridge, Tampa, Fla. 10-28
11- 3 Bridge, Tallulah, La. 9-16
11- 4 Bridging, Fowler, Ind. 10- 7
11- 4 *Bridge, etc., Reading, Pa. 10-21
11- 4 Bridge, Utica, N. Y. 10-28
11- 5 Bridge floor, Cincinnati, Ohio. 10-21
11- 6 Bridge, Phoenix, Ariz. 10-21
11- 6 Bridges, Eaton, Ohio. 10-21
11- 6 *Bridge work, Washington, D. C. 10-28
11- 6 *Removing bridge, Peoria, Ill. 10-28
11- 8 Replanking bridge, Ellendale, N. Dak 10-21
11-12 Bridge, Vancouver, B. C. 10-28
11-16 Bridges, Aberdeen, S. Dak. 10-28
11-16 Bridges, La Moure, N. Dak. 10-21
11-16 Substructure, Cleveland, Ohio. 10-28
11-19 Bridge, Cincinnati, Ohio. 10-28
11-22 Bridge bonds, Spokane, Wash. 10-21

BUILDINGS.

10-29 Roofing, New York 10-21
10-30 Capitol, Denver, Colo. 10-28
11- 1 Portable schools, Wash., D. C. 10-28
11- 1 School, Hamburg, N. Y. 10-28
11- 1 Court-house, Hammond, Ind. 10-28
11- 1 Steel work, Elko, Nev. 10-21
11- 1 *Post-office, Eagle Pass, Tex. 9-23
11- 2 Repairs, etc., Rochester, N. Y. 10-21
11- 3 Hospital, St. Paul, Minn. 10-21
11- 3 Dormitory, St. Paul, Minn. 10-21
11- 3 *Post-office, Albany, Ga. 9-30
11- 4 Post-office, North Adams, Mass. 10- 7
11- 4 Heating, New York. 10-28
11- 8 School, St. Paul, Minn. 10-14
11- 8 Jail, Los Angeles, Cal. 10-21
11- 8 Fire station, New York. 11-28
11- 8 Library, etc., Brockport, N. Y. 10-28
11- 9 Cottages, Industry, N. Y. 10-28
11- 9 Laundry, Sonyea, N. Y. (Mfg. Pl.) 10-28
11-10 Capitol, Helena, Mont. 9-30
11-10 Storehouse, New York. 10-28
11-11 Post-office, Ft. Dodge, Iowa. 10-14
11-12 Cottage, Bedford, N. Y. 10-28
11-15 Bldgs., Ft. Washington, Md. 10-28
11-15 Prison, Columbus, Ohio. 10-28
11-15 Quarters, Columbus Barracks, O. 10-28
11-15 *Post-office, New Haven, Conn. 10-21
11-16 *Bakery, Ft. Du Pont, Del. (Mfg. Pl.) 10-27
11-16 *Post-office, Belleville, Ill. 10-14
11-16 Stable, Ft. McPherson, Ga. 10-28
11-17 Bakery, Ft. Missoula, Mont. (Mfg. Pl.) 10-28
11-18 Quarters, Ft. Wayne, Mich. 10-28
11-18 Post-office, Rock Island, Ill. 10-28
11-18 Barracks, Philadelphia, Pa. 10-28
11-19 Court-house, New Haven, Conn. 10-28
11-20 Plans, Hartford, Conn. 10-28
11-20 *Quarters, Ft. Douglas, Utah. 10-21
11-22 *Hospital, Ft. Terry, N. Y. 10-28
11-24 Post-office, Montgomery, Ala. 10-28
11-26 Heating, etc., Council Bluffs, Ia. 10-28
12- 1 *Heating, ventilating, New Zealand 9- 9
12- 1 *Capitol, Little Rock, Ark. 10-21
12- 2 Post-office, New Brunswick, N. J. 10-28

WATER-WORKS.

10-29 Cisterns, Fort Morgan, Ala. 10-21
10-29 Hydrants, etc., New York. 10-21
10-29 Water-works, Nelson, Neb. 10-28
10-30 Water system, Hingham, Mass. 10-14
11- 1 Water mains, etc., Weston, Ont. 10-28
11- 1 Water mains, Fargo, N. Dak. 10-28
11- 1 Water mains, Ellendale, N. Dak. 10-28
11- 1 Water tower, etc., Wilmington, N. C. 10-28
11- 1 Pump well, etc., Buffalo, N. Y. 10-28
11- 2 Gate-house, Toronto, Ont. 10-28
11- 2 Water-works, Ackerman, Miss. 10-21
11- 4 Pressure system, etc., New York. 10-21
11- 4 Water-works, Belden, Neb. 10-14
11- 4 Water pipe, Titusville, Pa. 10- 7
11- 6 Cistern, Key West, Fla. 10-14
11- 6 Water supply, Indian Head, Md. 10-21
11- 9 *Engines, Detroit, Mich. 10-21
11- 9 Main extension, Fort Dade, Fla. 10-21
11-10 *Pumping engine, Dallas, Tex. 9-23
11-10 Mains, New York. 10-28
11-15 *Gate-house, Newburgh, N. Y. 10-28
11-15 *Water system, Cincinnati, Ohio. 10-14
11-19 *Pump-house, Fort Hancock, N. J. 10-21

SEWERS.

10-29 Sewers, Salt Lake City, Utah. 10-21
10-29 Sewer fixtures, etc., New York. 10-21
10-29 Sewers, Shenandoah, Iowa. 10-28
10-29 Sewer impvt., Marion, Ind. 10-28
10-30 Sewer work, Buffalo, N. Y. 10-21
11- 1 Sewers, Provo, Utah 10-21
11- 1 Sewer, Brainerd, Minn. 10-21
11- 1 Sewers, Kokomo, Ind. 10-21
11- 1 *Sewage plant, Rome, N. Y. 10-21
11- 1 Sewer, Huntington, W. Va. 10-14
11- 1 Sewers, Green Bay, Wis. 10-28
11- 2 Sewers, Chattanooga, Tenn. 10-28
11- 2 Sewers, Cleveland Heights, O. 10-14
11- 3 Sewers, Cleveland, Ohio. 10-28
11- 4 Sewer system design, McKeesport, Pa 10-28
11- 5 Sewer extensions, Salt Lake City, Utah 10-28
11- 5 Sewer, Fort D. A. Russell, Wyo. 10-21
11- 8 Sewers, Houston, Tex. 10-28
11- 8 Sewer, New York. 10-28
11- 9 Sewage pumping engines, Providence, R. I. 10-28
11-10 Sewers, Brooklyn, N. Y. 10-28
11-10 *Steel pipe, etc., Toronto, Ont. 10-14
11-15 Sewer bonds, Louisville, Ohio. 10-21
11-16 *Sewers, E. Providence, R. I. 10-28
11-19 *Sewer extensions, Roselle Park, N. J. 10-28

STREETS AND ROADS.

10-29 Paving, Caldwell, Idaho. 10-28
11- 1 Paving, Yonkers, N. Y. 10-28
11- 1 Paving, etc., Hamburg, Pa. 10-28
11- 1 Paving, New Brighton, Pa. 10-28
11- 1 Macadam, Kentland, Ind. 10-28
11- 1 Macadam, Oakland, Cal. 10-28
11- 1 Road, San Jose, Cal. 10-28
11- 1 Gravel road, Williamsport, Ind. 10-14
11- 1 Gravel road, Crown Point, Ind. 10-21
11- 1 Gravel road, Marion, Ind. 10-21
11- 1 Gravel road, Delphi, Ind. 10-21
11- 1 Grading, New York 10-21
11- 2 Roads, Petersburg, Ind. 10-21
11- 2 Gravel roads, Rockville, Ind. 10-21
11- 2 Gravel road, etc., Fowler, Ind. 11-21
11- 2 Asphalt, Stillwater, Okla. 10-21
11- 2 Gravel road, Brazil, Ind. 10-14
11- 2 Roads, Paoli, Ind. 10-28
11- 2 Sidewalks, Kaukauna, Wis. 10-28
11- 3 Macadam, St. Clairsville, Ohio. 10-28
11- 3 Paving, Columbus, Ohio. 10-28
11- 3 Paving, Cincinnati, Ohio 10-28
11- 3 Macadam, Laporte, Ind. 10-21
11- 3 Gravel road, Logansport, Ind. 10-21
11- 4 Gravel road, La Fayette, Ind. 10-21
11- 4 Stone road, Fowler, Ind. 10-14
11- 4 Grading, etc., New Brunswick, N. J 10-28
11- 4 Paving, etc., Saltsburg, Pa. 10-28
11- 4 Macadam, Steubenville, Ohio. 10-28
11- 5 Macadam, Warren, Ohio 10-28
11- 5 Paving, Salt Lake City, Utah. 10-28
11- 6 Paving, Charleston, S. C. 10-21
11- 8 Alley impvt., Wabash, Ind. 10-21
11- 8 Paving, Huntington, W. Va. 10-28
11- 9 Paving, Toledo, Ohio 10-28
11- 9 Graveling, Jefferson, Ia. 10-14
11-10 Street impvt., Madison, Wis. 10-21
11-10 Paving, New York 10-28
11-10 Roads, Olathe, Kan 10-28
11-10 Road, Vancouver Barracks, Wash. 10-28
11-16 Highway, Chandler, Okla. 10-28
11-16 *Subways, paving, Auburn, N. Y. 10-28
11-19 Paving, Two Rivers, Wis. 10-21

MISCELLANEOUS.

No date *Ditch work, Chicago, Ill. 10-28
10-28 Levees, New Orleans, La. 10-28
10-29 Cable, Cincinnati, Ohio 10-28
10-30 *Levee, Ditch, Caldwell, Tex. 10- 7
10-30 Levee, New Orleans, La. 10-14
10-30 Drainage ditch, Kansas, Ill. 10-21
11- 1 Hose wagon, Winnipeg, Man. 10-21
11- 1 Foundation, docks, Buffalo, N. Y. 10-28
11- 5 Fire engines, New York 10-28
11- 6 Seawall, dredging, Norfolk, Va. 10-21
11- 8 Steel castings, etc., Panama. 10-21
11- 8 Levee, Sacramento, Cal. 10-28
11-10 Copper work, Atlanta, Ga. 10-21
11-10 Timber sale, Toronto, Ont. 10-28
11-10 Supplies, New York 10-28
11-13 *Ditch, Clinton, Ill. 10-28
11-15 *Machinery, Cincinnati, Ohio. 10-21
11-15 *Dam, Clifton, Colo. 10-28
11-20 Dredging, Charleston, S. C. 10-21
11-27 Pneumatic system, Charleston, S. C 10-28
12- 1 Drainage ditches, Liberty, Tex. 10-28
1-17 *Irrigation work, Porto Rico. 10-21
1-18 Dry dock, New York 10-21
2- 1 (1910) Monuments, Ottawa, Ont. 10-21

EXAMINATIONS.

10-30 Chainman, Albany, N. Y. 10-14
11- 3 Special Agents, Wash., D. C. 10-14
11- 8 *Sub-Inspector, Boston, Mass. 10-28
11-13 Supt. Highways, Albany, N. Y. 10-28
11-22 Mechanical Draftsman, Phila., Pa. 10-21
11-23 Examiner of Accounts, Wash., D. C. 10-21
11-23 Junior Electrical Engr., Wash., D. C. 10-28
11-24 Inspector's Asst., Wash., D. C. 10-21
11-24 Drainage Engr., Wash., D. C. 10-21

RAILWAYS.

ALBANY, LEBANON & BEND.—Incorporated in Oregon, with $10,000 capital stock, to build a railway connecting the places named in its title. The incorporators are J. C. Mayer, Ed. Kellenberger and Geo. B. Whitcomb, of Albany, Ore.

ALBERTA CENTRAL.—Announcement is made that plans have been completed for beginning construction next year on this line. As fully noted on Sept. 9, this railroad will run from Red Deer, Alta., west to a point on the Grand Trunk Pacific at Yellow Head Pass, about 200 miles; from Red Deer east to Moose Jaw, Sask., with a branch from the main line near Battle River north to Saskatoon or Warman. Surveys are now being made both east and west of Red Deer. The government has granted a subsidy of $3,200 a mile for 75 miles from Red Deer west. There will be three steel bridges over the Red Deer, the Medicine and Saskatchewan Rivers. J. T. Moore, Pres., and J. G. MacGregor, Ch. Engr., both of Red Deer. H. W. Raphael is Acting Secy., Montreal, Que.

ALEXANDRIA & WESTERN.—Construction will be started about Dec. 1 from Alexandria, La., west via Leesville, to the Sabine River, at the Texas border. G. P. Cotter is Pres., Ft. Worth, Tex.; J. W. Sylvester, Ch. Engr., Alexandria, La. Noted on Sept. 30.

ATLANTA, BIRMINGHAM & ATLANTIC.—Contract for building the extension between Mulga Junction and Birmingham, Ala., has been let to the NICHOLS CONTRACTING CO., of Atlanta, Ga., and FURTWANGLER & SMITH, of Birmingham, Ala., the latter taking the section near Birmingham and the former that near Mulga Junction, according to the "Manufacturers' Record." Noted on Oct. 14.

BANDON & PORT ORFORD RAILROAD & NAVIGATION CO.—It is reported that this company, which was organized in July, with headquarters at Bandon, Ore., has started clearing the right-of-way from Bandon south to Port Orford, 26¼ miles. There will be 4,000 ft. of timber trestlework. Contracts for grading and track laying probably will be advertised for this fall. The line will follow the coast all the way to Port Orford, where there is a good harbor. There is also a good harbor at the northern terminus at Bandon. S. D. Henderson is Gen. Mgr., Bandon; Elmer Hughes, of Portland, Ore., is Engr.-in-Charge.

EUNICE, LAFAYETTE & ABBEVILLE.—Surveys are completed and company plans to begin construction about January. The line will be built from Eunice, La., southeast via Church Point to Lafayette and thence southwest to Abbeville, La., about 60 miles in length. James J. Lewis is Pres., and J. N. Green, Vice-Pres., Eunice, La.

FERNLEY & LASSEN.—Incorporated in California as a subsidiary company of the Southern Pacific Co. The company is formed to build a connecting link, 135 miles in length, joining the Central Pacific system with the Goose Lake & Southern Ry. It will open a considerable area of new country. The Fernley & Lassen Ry. Co. is capitalized at $5,000,000, of which $135,000 has been paid in. The new line will start near Fernley Station on the Central Pacific Railway, in Lyon County, State of Nevada, and will run northwesterly via the vicinity of Amedee in Lassen County and Susanville, in the same county, Cal., to the point where it will join with the Goose Lake & Southern Ry. The Directors of the corporation are Peter F. Dunne and J. E. Fouldes, of San Francisco; W. R. Scott, of Berkeley, Cal.; C. H. Redington and G. L. King, of Oakland.

IBERIA, ST. MARY'S & EASTERN.—Chartered in Louisiana to construct a railway from New Iberia to New Orleans through the parishes of St. Mary, Assumption or Terrebonne and Iberia and such other portions of the State as the Board of Directors may determine upon later. The capital stock is placed at $2,000,000. Headquarters will be at New Iberia. The Board of Directors is as follows: F. M. Welch, H. N. Pharr, Porteus R. Burke, John M. Durocher, James A. Peterman, R. Emmett O'Neil and Paul Kramer. The officers are: F. M. Welch, New Orleans, Pres.; James A. Peterman, First Vice-Pres.; R. Emmett O'Neil, Second Vice-Pres., New Iberia, and Henry N. Pharr, Secy. and Treas., Memphis, Tenn.

OSAGE & WESTERN.—The Directors of this company have elected permanent officers as follows: R. H. Hoss, of Fairfax, Okla., Pres.; Clarence Walters, of Muskogee, Okla., Vice-Pres. and Gen. Mgr.; L. A. Wisemerour, of Fairfax, Secy.; C. E. Vandervoort, of Pawhuska; J. M. Moody, of Fairfax; C. E. Rush, of Tulsa, and Fred Balbruff, of Bliss, Directors. E. J. Noonan, of Muskogee, is locating engineer. The company proposes to build from Pawhuska to some point on the Missouri, Kansas & Texas Ry. on the east, and then build from Pawhuska to Enid, Okla. The permanent survey will be commenced at once, and the officers state that actual construction will be started within 30 days. The general offices of the company have been located at Pawhuska, Okla. Noted last week.

PHILADELPHIA & READING.—New bids were taken under consideration by W. Hunter, Ch. Engr., for Contracts No. 2 and No. 12, for construction of the work appurtenant to the abolishment of grade crossings on the P. G. & N. R. R. as follows: Contract No. 2, foundations for the steel viaduct from the south side of Brown St. to the north side of Jefferson St.; Contract No. 12, masonry, embankment, paving, water and drainage systems, fence and gates, new office building, scale foundation, concrete steps and pavement for yard at Master St. Bids were received on May 11 for this work and the two contracts were awarded to OWEN J. EVERS, Philadelphia, at $237,307 and $92,342. The reletting of these contracts was made necessary through the failure of the original contractor to keep within the time requirements. Noted on May 27.

ROANOKE & BENT MOUNTAIN.—Surveys have been partly made for this railway, which will be about 50 miles long and will connect Roanoke, Air Point, Bent Mountain and Floyd, Va. Capital is being negotiated. W. C. Lawson is Pres., and M. M. Caldwell, Secy., Roanoke, Va.

ROCKPORT & ARANSAS PASS.—We are officially advised that this company, which was recently chartered to build a line from Rockport, Tex., to the jetties at Aransas Pass, 11½ miles, has completed preliminary surveys and has secured necessary capital and right-of-way. Company is awaiting development of government work at Aransas Pass Harbor before letting contracts. C. G. Johnson is Pres.; Harry Traylor, Secy.; D. R. Scrivener, Treas.; John H. Traylor is Vice-Pres. and Gen. Mgr.; Percival & Son are Engrs., all of Rockport, Tex.

SALISAW, McALESTER & SOUTHERN.—Contract has been given to J. C. WILKINSON, of McAlester, Okla., for some grading work on this line. Through the narrows at 20 miles and at 50 miles west of McAlester the work will be expensive, being mostly through rock. On the balance of the line it involves moving about 20,000 cu. yds. to the mile. There may be wo tunnels, also about 20 bridges, including one over the Arkansas River and another over the Red River. Surveys have been made for about 100 miles. The plans call for a line from Salisaw, Okla., southwest via Sequoyah, Haskell and Latimer Counties to McAlester, thence south via Toka, Pushmataha, Chotaw and Bryan Counties to Honey Grove, about 190 miles, with a number of branches. The estimated cost of the line is $3,000,000. J. E. Cavanaugh is Pres., and Milton J. Smith, Ch. Engr., at McAlester.

WATERVILLE R. R.—Contracts for building this line between Waterville and Douglas, Wash., have been awarded to JOHN MOHR and GEO. B. BRETT, of Wenatchee, Wash.

WEST VIRGINIA.—The C. I. Munger Lumber Co., of Elkhart, Ind., probably will build a railroad in Nicholas County, W. Va., to develop timber lands. Clark & Krebs, of Charleston, W. Va., are the Engrs. The line will run from Angling Creek, on Meadow River, to Hominy Creek, on Gauley River.

ELECTRIC RAILWAYS.

ALBANY, N. Y.—We are officially advised that J. G. White & Co., 43 Exchange Pl., New York, are in charge of the work of double-tracking and straightening 13 miles of the Albany Southern R. R., of which R. A. C. Smith is Pres., 100 Broadway, New York. As previously noted, this company, incorporated on Sept. 14, is a reorganization of the Albany & Hudson Railroad, the third-rail electric line between Albany and Hud-

son, which went into a receiver's hands some months ago and whose properties were sold under mortgage foreclosure on Sept. 8.

VINELAND, N. J.—The Northern New York Construction Co., it is announced, has been organized at Vineland to build a trolley line between Bridgeton and Vineland. The directors elected are: George E. Stevenson, of Vineland; B. F. Patterson, of New York; G. H. Burgess, of Philadelphia; Frank Parvin and H. C. Bartlett, of Vineland, and T. H. Coggey, of New York. Mr. Stevenson was elected Pres., and Messrs. Patterson and Parvin Vice-Presidents; Mr. Coggey Secy., and H. C. Bartlett, Treas. Survey is being made and right-of-way is being solicited.

ALLENTOWN, PA.—The Lehigh Valley Transit Co. has awarded contract to GEO. H. HARDNER, of Allentown, involving an expenditure of about $50,000 for the regrading and straightening of 21 miles of its line from Allentown to Slatington. D. H. Brown is Ch. Engr.

CANONSBURG, PA.—J. Banks Holland, of Cecil, Pa., has secured right-of-way for the proposed electric railway between Canonsburg and McDonald. Company will be organized soon and charter will be applied for.

STROUDSBURG, PA.—The Stroudsburg & Delaware Water Gap Street Railway Co. has asked the Town Council for a franchise to extend its tracks to the borough limits as part of a plan to extend the line to Portland. A. A. Holbrook is Gen. Mgr., at Wilkes-Barre, Pa.

WILMINGTON, DEL.—The Westchester & Wilmington Electric Ry. Co. plans to start construction on its proposed railway at once. The railway will be 14 miles long and will connect Wilmington and West Chester, Pa. Thos. E. O'Connell is Pres.; C. E. Faucett, Secy. and Treas., and St. George H. Cooke, Gen. Mgr., at Wilmington.

CHATTANOOGA, TENN.—The City Council has granted an electric street railway franchise to D. J. Duncan and associates.

CLEVELAND, OHIO. —See item under Buildings.

FOSTORIA, OHIO.—The Fostoria & Fremont Ry. Co. has made application for a charter to build an electric railway from Fostoria to Fremont. The railway will connect the Lake Shore Electric Railway, which is to furnish the power, and the Western Ohio Railway, of which F. D. Carpenter is Gen. Mgr. The directors of this company have chosen the following officers: F. D. Carpenter, Lima, Ohio, Pres.; J. H. Goeke, Vice-Pres., and J. D. McDonel, Secy. and Treas. Capital stock, common $150,000; preferred, $150,000; bonds issued amounting to $250,000.

MADISON, IND.—The Cincinnati, Madison & Western Traction Co. has been granted subsidies by the towns along its proposed route to aid in the construction of its line from Madison to Lexington and Scottsburg. C. C. Tennis, of Pittsburg; Wm. E. English, of Indianapolis, and John E. Greeley, of Louisville, Ky., are interested.

INDIANAPOLIS, IND.—We are officially advised that the Capitol Circuit Traction Co. has negotiations under way for securing capital for construction of its projected 170-mile line and that contracts will be let as soon as loan is secured. Surveys have been made and right-of-way partly obtained. John A. Shafer is Ch. Engr., 3725 North Illinois St., Indianapolis. Noted fully on Oct. 14.

Louis McMains, Churchman Pike, Indianapolis, has petitioned the County Commissioners for a franchise permitting a company to construct an interurban line in Churchman Pike from the corporate limits of Indianapolis at a point near the intersection of Keystone Ave. and Churchman Pike to the corporate limits of Beech Grove. He has also filed a petition requesting the straightening of certain parts of the pike and for widening the pike by adding 13½ ft. of right-of-way on either side. The petition signifies that the property owners on each side of the pike are willing to part with the necessary land to widen the road. The County Commissioners will appoint viewers to examine the proposed improvement.

HAMMOND, IND.—The Indiana Northwestern Traction Co. has been incorporated to construct an electric railway from Hammond to Lafayette via intermediate towns. The company will carry on both a freight and passenger business. Headquarters, Monticello, Ind. Capital stock, $50,000. Directors: William Buckner, C. D. Meeker, Jacob D. Timmons, Monticello; Geo. W. Goff, Rensselaer, and Geo. A. Haskell, Chicago, Ill.

DAVENPORT, IOWA.—The Davenport & Manchester Interurban Ry. Co. has prepared plans for building its line between these two cities. L. Mathews, Manchester, is Pres.; J. A. Voorhees is Vice-Pres., Monticello, Iowa; F. W. Rank, Secy., Moline, Ill.; T. F. Halligan, Treas., Davenport. Contracts will be let soon.

KANSAS CITY, MO.—We are officially informed that the Interstate Ry. Co. has awarded general construction contract to the ELECTRIC TRACTION CONSTRUCTION CO., 301 Commerce Bldg., Kansas City, Mo. Noted on Sept. 30.

GLEN ROSE, TEX.—The Glen Rose & Walnut Springs Ry. Co. has started grading work. The line is to be built from Walnut Springs, Tex., north to Glen Rose, about 15 miles, and eventually is to be extended northeast to Fort Worth. The work is being done by the company's forces. There is one bridge. T. C. Lees is Pres., Walnut Springs; T. M. Simpson, of Dallas, with headquarters at Glen Rose, is Engr.-in-Charge. Noted on Oct. 14.

MIAMI, OKLA.—Contracts have not been awarded yet by the Oklahoma, Kansas & Missouri Interurban Ry. Co. Surveys are now made from Miami, Okla., northeast via Hattonville, Quapaw, Lincolnville and Peoria to Hornett, Mo., thence via Spring City to Joplin, a total of 35 miles. Track has been laid on 5½ miles between Miami and North Miami. It is expected to begin work soon. Gasoline motor cars will be used for passenger service and steam for the transportation of freight. Principal office, Miami. Capital stock authorized, $200,000; issued, $100,000. Franklin M. Smith, Joplin, Mo., is Pres.; William Phillie, Miami, Secy.; W. H. Schreiber, Ch. Engr.

NOWATA, OKLA.—The Coffeyville & Nowata Ry. & Power Co. has been chartered in Oklahoma with $200,000 capital. Headquarters at Nowata. The company proposes to build a standard-gage line from Coffeyville, Kan., to Nowata, Okla., a distance of 23 miles, at an estimated cost of $25,000 per mile. The directors are J. C. Denton, W. V. Thraves and J. A. Tillotson, of Nowata; John B. Pollard, of Kansas City, Mo., and W. P. Brown, of Coffeyville. Noted on April 8.

LAWTON, OKLA.—Charter has been granted to the Lawton & Fort Sill Elec. Ry. Co. Capital, $200,000; headquarters, Lawton. It proposes to operate a street railway system in Lawton, with lines from Lawton to Fort Sill, Medicine Park and other points in Comanche County. The estimated length of the line is 20 miles, and the estimated cost, $140,000. The directors are Simon Smith, of Oklahoma City; W. H. Pattie, D. L. Sleeper and J. H. Miller, of Tulsa, and J. B. Sleeper, of Lawton.

ROCKPORT, WASH.—The Skagit, Cascade & Chelan Ry. Co. has been incorporated in Washington with $25,000,000 capital, to build three lines as follows: Rockport, Wash., in Skagit County, up the Skagit River, east, thence northeast and north through Whatcom County to the British Columbia line; from Marblemount, Skagit County, at a junction with the Skagit River line, up the valley of the Cascade River, east, thence southeast and northeast through Cascade Pass, in the Cascade Mountains, by a tunnel at an elevation of about 2,800 ft., thence down the Stehekin River valley in Chelan County, southeast to the head of Lake Chelan at Stehekin, thence eastward to Spokane; from the junction of Thunder Creek with the Skagit River, in Whatcom County, on the Skagit River line, south and southeasterly to Skagit County, in Silver basin, thence through the Cascade Mountains by a tunnel under Boston Peak to Horseshoe basin at an elevation of about 3,500 ft. to a connection with the Stehekin River line in Chelan County. The incorporators include J. W. Shenk, of Los Angeles, Cal.; George Senior, W. E. Everette, C. E. Phoenix, A. M. Richards and W. W. Shenk, all of Tacoma, Wash.; Giles Shaw and T. W. Armitage, of Huddersfield, England.

SAN FRANCISCO, CAL.—The Board of Supervisors has passed the ordinance calling upon the City Engineer for an estimate of the cost for constructing the Geary St. line from Kearny St. to the Cliff House and from Kearny to East Sts. The proposition as it will be submitted to the electors will be in two subdivisions, so that both projects will receive either the approval or the disapproval of the electors. The route is outlined in the ordinance as follows: "First—Geary St., from Market St. to Point Lobos Ave.; Point Lobos Ave., from Geary St. to Cliff Ave.; Cliff Ave., from Point Lobos Ave. to a convenient terminal near the ocean; Tenth Ave., from Point Lobos Ave. to Golden Gate Park. Second—Over and along Market St., from Geary St. to East St., and East St. to the Ferry building, and directing the Board of Public Works to procure and file plans and estimates of the cost of original construction and completion of said street railways."

SAN DIEGO, CAL.—The San Diego, El Cajon & Escondido Ry. Co. has been incorporated to build an electric railway to connect San Diego, La Mesa, El Cajon, Bostonia, Lakeside, Morton, San Pasquel, Bernardo and Escondido, 65 miles. Surveys have been completed. Headquarters, San Diego. Capital stock, $2,500,000. Incorporators: G. W. Pursell, H. G. Crowe and A. C. Riordon, San Diego; W. L. Ramey and C. O'Kelly, Escondido, and William Stell and C. O. Nichols, El Cajon. Noted fully on Sept. 9.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

PORTLAND, ME.—Bids will be received until Nov. 1 by the Board County Commissioners, James H. McDonald, Chn., for special electric fixtures for the new county building. George Burnham is Arch., 120 Exchange St.

CONCORD, N. H.—The stockholders of the Concord & Montreal R. R. Co. have voted to issue new stock for $250,000 for the purchase of water powers on Pemigewasset River in Franklin and surrounding towns recently acquired by the Boston & Maine R. R. Co. and to meet the cost of the development of property for the production of electrical energy for the operation of the motive power and car shops in this city, and for the Concord and Manchester Electric branch, and otherwise. Benj. A. Kimball, of Concord, and Walter M. Perker, of Manchester, are among the directors.

WORCESTER, MASS.—The Worcester Electric Light Co., W. H. Coughlin, Ch. Engr., has several new sites under consideration with a view of constructing a new steam-generating plant. At present the company subleases water rights from the American Steel & Wire Co., which controls water rights of Salisbury pond. The company may decide to purchase power from the Connecticut River Transmission Co., whose hydro-electric power plant in Vernon, Vt., is now furnishing electricity in Clinton and Fitchburg, Mass.

NEW HAVEN, CONN.—Bids will be received until Nov. 3 by the Committee on Public Lighting, J. H. Mulvey, Chn., for furnishing for a period of three and five years and maintaining not less than 50 flat open flame gas lamps; also 1,320 incandescent or mantle (gas) lamps. The present contract expires on Dec. 31, 1909.

NEW YORK, N. Y.—Bids will be received after Oct. 30 by W. Weissenberger, Arch., 55 Duane St., for the 3-story brick and stone substation, 50 x 98 ft., for the New York Edison Co., to be erected at Nos 314-316 East 41st St. Estimated cost, $115,000.

NEW YORK, N. Y.—Bids were received as follows on Oct. 21 by the Park Board for work and materials for the installation of electric light and power plant in the New York Public Library, Fifth Ave., 40th and 42d Sts.: Lord Electric Co., 213 West 40th St., $71,842; H. E. Fox, 81 East 125th St., $79,000; Watson Flagg Engineering Co., 27 Thomas St., $78,490; Chas. L. Eidlitz Co., 1168 Broadway, $80,600; Eugene Frank, 22 East 21st St., $83,890; Peet & Powers, 45 West 34th St., $79,600; Reise & O'Donovan, 1123 Broadway, $80,886; Cowden & De Young, 115 East 42d St., $82,691; Louis Weschler, 1133 Broadway, $83,875; Providence Engineering Works, 50 Church St., $87,500; Wells & Newton, Ave. B and 17th St., $82,884; E. J. Duggan, 1123 Broadway, $89,900.

HANNIBAL, N. Y.—WILLIAM STOCK, of Hannibal, has been granted a franchise to furnish electricity for lamps in Hannibal, and has secured contract for lighting the streets of the village. The street lighting contract calls for 20 tungsten lamps. Mr. Stock has entered into a contract with the Oswego River Power Transmission Co. to furnish electricity for the territory he proposes to serve in Hannibal, Red Creek and other districts.

SCHENECTADY, N. Y.—We are officially advised that the STONE & WEBSTER ENGINEERING CORPORATION, Stone & Webster Bldg., Boston, Mass., has been awarded contract by the General Electric Co., of Schenectady, for the construction of a reinforced-concrete shop building to be part of the Schenectady works. The plans are not yet completed but the general dimensions are 80 x 400 ft.

SYRACUSE, N. Y.—EDWARD K. FENNO has been awarded contract for the erection of the large new power-house to be built by the Will & Baumer Co. at its plant on the Liverpool road. The plant will double the power facilities of the company. The building will be of brick and hollow tile construction and will cost about $5,000. Harry D. Phoenix is Arch.

*ORANGE, N. J.— Bids will be received by the Common Council until Nov. 8 for constructing the proposed municipal electric light plant according to the revised plans of Runyan & Carey, 122 Market St., Newark In the revised plans some important changes have been made, including the substitution of motor-driven Brush arc generators for rectifiers and transformers. The switchboard sections have been reduced from 13 to 8. The plant will supply energy for 368 arc lamps and 95 tungsten lamps.

GRENLOCH, N. J.—The Batefan Mfg. Co., of Grenloch, manufacturers of agricultural implements, has recently placed contracts for the installation of a 160-HP. Riverside engine and a gas producer manufactured by R. D. Wood & Co. The engine will be directly connected to a Crocker-Wheeler generator. The company will be in the market for motors.

BEDFORD, PA.—The Bedford Electric Light, Heat & Power Co., William Brice, Jr., Mgr., contemplates installing a new steam engine of about 250 or 300 HP.

McKEESPORT, PA.—Preparations are being made by the McKeesport Tin Plate Co. to install an engine and generator of from 400 to 500 HP. to furnish electricity to operate its plant. The company will also equip its plant with direct-current motors.

PHILADELPHIA, PA.—Bids will be received by the Department of Public Works until Nov. 4 for pumps, boilers and mechanical and electrical equipment for the Queen Lane filter plant. The machinery to be installed includes two high-pressure, direct-acting pumping engines rated at 2,000,000 gallons each, and two 5,000,000-gallon centrifugal pumping engines to pump wash water for preliminary filters.

PHILADELPHIA, PA.—FRED A. HAVENS & CO. have been awarded contract for the erection of a power-house for the Philadelphia & Reading Ry. Co. at Ninth and Green Sts., in connection with the elevation of the company's tracks on Ninth St. The plans show a 1-story brick building, 40 x 86 ft., with a steel coal trestle along one side. A modern steam and electric plant will be installed for furnishing heat, light and power in the adjacent yard and engine-house.

LANCASTER, S. C.—The City Council on Oct. 11 awarded to LEROY SPRINGS and T. Y. WILLIAMS contract to light the city for ten years. The contract calls for not less than 30-arc lamps, the plant to be completed not later than Jan. 31.

ATLANTA, GA.—Plans for a "Great White Way" on Peachtree St. and adjacent territory, by the installation of electric lamps, are being made and several thousand dollars have already been donated by property owners for the purpose. A committee has been appointed to solicit subscriptions.

MACON, GA.—Preparations are being made for the installation of a complete electric plant at Mercer University this fall to furnish electricity for lighting the college buildings and grounds. The power plant will be located across the campus from the buildings. The city has granted the college authorities permission to erect overhead wires across Elm St.

ST. PETERSBURG, FLA.—The St. Petersburg Investment Co., which controls and operates the St. Petersburg Electric Light & Power Co., is planning to rebuild the electric light plant, including the installation of engines and generators. H. W. Platt is Ch. Electrician.

QUINCY, FLA.—Bids will be received by George H. Palmer, City Engr., until Nov. 1 for the construction of a power-house reservoir, a 150-KW. direct-connected generator, 200-HP. engine, 4-valve type, 1,500,000-gallon pump, air compressor, stand pipe, fire hydrants, 4 to 12-in., c.-i. pipe, valves and boxes, poles, wire, arms and sewer pipe 8 to 18-in.

ANNISTON, ALA.—The City Council on Oct. 14 granted a franchise to the Coosa River Power & Development

ALEXANDRIA, LA.—Bonds for $40,000 have been sold, to be used to extend the electric light plant and works. Bids for construction will be received about Nov. 10. I. W. Sylvester is City

SPRINGFIELD, OHIO.—F. L. Packard, Arch., of Columbus, has awarded to J. A. ROSS, of Springfield, contract for erection of a new plant for the Springfield Light, Heat & Power Co.

SOUTH BEND, IND.—The South Bend & Logansport Traction Co. has awarded contract to the INDIANA & MICHIGAN ELECTRIC CO., F. A. Bryan, Gen. Mgr., of South Bend., Ind., for wiring and stations. Other contracts will be awarded soon.

AU SABLE, MICH.—Preparations are being made by the Eastern Michigan Power Co. for the development of the water power of Au Sable River, to be utilized to generate electricity, to be transmitted to the Saginaw Valley cities. The plans include the construction of 13 dams along the river eventually. Work will soon commence on the first development and definite location will soon be decided on for the dam, power-house, etc. Estimated cost, $300,000. H. M. Loud's Sons Co., of Au Sable, are interested in the new company. W. G. Fargo is Engr.

ROSICLAIRE, ILL. — The Rosiclaire Lead & Fluorspar Co. is contemplating the installation of one or two large motors to operate the machinery in its plant.

MOMENCE, ILL.—The Momence Electric Light Co. contemplates enlarging its power plant next spring. W. B. Harpole is Mgr.

WELSBURG, IOWA.—H. A. Schmitt, of Wellsburg, is contemplating the installation of an electric plant here.

OXFORD JUNCTION, IOWA.—Plans are being made for the installation of an 18 x 30-in. Corliss engine in the power plant of the Oxford Junction Light, Power & Mill Co.

ODELL, NEB.—Barry & McAllister have been granted a 20-year franchise to construct and operate an electric light system here. Work will soon commence on the construction of the plant.

STEVENSVILLE, MONT.—The citizens on Oct. 4 voted to grant a franchise to the Missoula Light & Water Co., S. R. Inch, Supt. and Mgr., of Missoula, Mont., to install an electric system here. Under the terms of the franchise the company is to have the plant established within ten months. Electricity for the system will be furnished from the company's plant in Missoula.

LITTLE ROCK, ARK.—Plans and specifications are being prepared by the Garland Power & Development Co. for the construction of five dams on the Ouachita River. Three of the dams will be constructed to create reservoirs to furnish water for the plants during dry seasons and two dams will be utilized to furnish power for the power plant in Garland County to generate electricity to be distributed throughout Central Arkansas. Estimated cost of dams, $3,000,000. Henry Dalhoff is interested in the project.

WALTER, OKLA.—Plans are now being prepared for an electric plant to cost $7,000, water-works to cost $57,000 and sewers to cost $26,000.

PITKIN, COLO.—A franchise for electric lighting, etc., has been granted to the Independent Mining Co. A. E. Reynolds is interested.

FLORENCE, COLO.—The Arkansas River Power Co. has filed maps and plans for the flume and ditch it proposes to construct between Salida and Florence, depth to be 6 ft., width 36 ft. at top and 25 ft. at bottom, length, 45 miles. Estimated cost, $2,500,000. The company will supply power for all uses from four power-houses, one at the mouth of Texas Creek, one at Howard, one at Coaldale and one at Parkvale. The incorporators are: F. M. Tomlinson, Peter O'Brien aid E. C. Hiatt.

DEMING, N. MEX.—P. M. Shull, of Deming, is reported to have awarded to the WESTERN CONSTRUCTION CO., of Wichita, Kan., contract for constructing an electric power pumping plant for Mimbres Valley, to be established near Deming. About 40 or 50 wells will be sunk, two 400-HP. units and 4 units will be put in at the start, and power lines of about 50 miles will be constructed from the plant to the various wells, where direct-connected generators will operate the pumps. Water will be furnished to the farmers.

BELLINGHAM, WASH.—We are officially advised that contract for extensive alterations in the steam and water-power plants of the Whatcom County Ry. & Light Co., Bellingham, has been awarded to the STONE & WEBSTER ENGINEERING CORPORATION, Stone & Webster Bldg., Boston, Mass. In the Nooksack Falls water-power plant, an impulse wheel will be substituted for the present 3,300-HP., Francis turbine. The steam plant, known as the York St. Station, will be enlarged to accommodate a new 1,500-KW. turbo-generator with boilers, condensers, and other steam and electrical auxiliaries.

TEKOA, WASH.—The City Council has awarded contract to the IDAHO-WASHINGTON LIGHT & POWER CO. for lighting the streets of the town for a period of five years.

OROVILLE, CAL.—Notice of appropriation of 5,000 miners' inches of water of Butte Creek has been filed by Frederick F. Conger. The water will be utilized for power, mining, domestic and irrigation purposes.

MAMMOTH, CAL.—It is reported that the Copper Creek Mining Co., of Copper Creek district, 14 miles east of here, is contemplating enlarging its electric plant soon.

PACIFIC GROVE, CAL.—The Monterey County Gas & Electric Co. has petitioned the Board of Supervisors for a franchise to extend its proposed transmission line from Monterey to Salinas. The transmission line will be about 30 miles in length and will supply electricity in Castroville, and also to

operate pumping plants in that locality. The line will parallel the Southern Pacific Ry. to Castroville and from there will extend along the county road to Salinas and thence to Spreckles, where the sugar company will utilize electricity taken from the Monterey system.

SAN DIEGO, CAL.—Bids will be received by J. T. Butler, City Clk., until Nov. 15 for lighting the streets and parks of the city with electricity beginning June 1, 1910.

PORTERSVILLE, CAL.—Plans are being made to form a new company for the purpose of constructing a power plant, to be located about a mile below Springville, where a fall of from 100 to 120 ft. can be secured. It is said that A. M. Coburn has offered to the company use of the water which he now has the privilege of taking for his mill in exchange for power, which, it is understood, will be accepted. The sum of $70,000 has already been subscribed for stock in the company. S. E. Henley is interested.

ALAMEDA, CAL.—F. P. FISHER, of Alameda, has been awarded contract for finishing the large power-house of the Southern Pacific Ry. Co. at $127,000.

VERDUN, QUE.—I. COLLINS, of Montreal, Que., has received contract for the construction of the new municipal power-house here.

COBALT, ONT.—The Cobalt Power Co. has awarded contract to the GENERAL ELECTRIC MFG. CO., of Sweden, for the supply of switchboards and 60 transformers in sizes of 100 KW. and less.

BRIDGES.

BOSTON, MASS.—The BOSTON BRIDGE WORKS, 47 Winter St., has been awarded contract for repairing the draw span at the Neponset bridge at $8,985. William H. Ellis was the only other bidder at $9,422.

UTICA, N. Y.—The time for receiving and opening bids for the construction of a lift bridge over the Erie Canal at Seneca St., Utica, set for Oct. 26, has been extended by F. C. Stevens, Supt. Pub. Wks., Albany, to noon, Nov. 4.

SULLIVAN, N. Y.—Bids will be received until Oct. 30 by Ford Allen, Town Supt., and Jacob Alt., Town Supt. of Cicero, at the office of the County Superintendent of Highways at the Court House, Syracuse, for furnishing material and constructing a through steel riveted truss bridge with concrete and macadam floor system between Sullivan and Cicero.

WILMINGTON, DEL.—The Baltimore & Philadelphia R. R. Co., operating the Baltimore & Ohio lines through this city, has awarded to CHARLES A. SIMS & CO., of Philadelphia, contract to build the new bridge that will replace the structure now spanning Brandywine Creek in the northern section of Brandywine Park. The bridge will enable the company to straighten its lines at that point and will be of steel with granite abutments.

DENTON, MD.—See item under Streets and Roads.

EASTON, MD.—Fisher & Carozza, American Bldg., Baltimore, Md., are the lowest bidders at $31,278 for the construction of a pivot drawbridge across Choptank River, 70-ft. steel span and grading and macadamizing 11 miles of road.

*WASHINGTON, D. C.—Bids are asked until noon, Nov. 6, by the District Commissioners for furnishing four lamp posts for the 16th St. bridge across Piney Branch.

NORFOLK, VA.—Contract for constructing a concrete bridge at Court St. has been awarded by the city to the GWATHMEY ENGINEERING CO., of Norfolk, at $3,990.

WHEELING, W. VA.—The Board of Control on Oct. 16 awarded contract at $17,000 for steel work on superstructure of Market St. bridge to the McCLINTIC-MARSHALL CONSTRUCTION CO., Pittsburg, Pa., at $17,000. Other bids were: American Bridge Co., New York, $18,995; Riverside Bridge Co., Martins Ferry, Ohio, $19,344; Toledo-Massillon Bridge Co., Toledo, Ohio, $19,750; Penn Bridge Co., Beaver Falls, Pa., $19,820; Pennsylvania Steel Co., Steelton, Pa., $20,344; Fort Pitt Bridge Co., Pittsburg, $25,442; Riter-Conley Mfg. Co., Pittsburg, $27,210.

*ASHEVILLE, N. C.—The following bids were opened on Oct. 8 at the office of the County Commissioners for the construction of a reinforced-concrete bridge over French Broad River, connecting Asheville with West Asheville: (a) Bridge 930 ft. long, 24-ft. roadway and 5-ft. walk, (b) bridge 930 ft. long, 30-ft. roadway and 5-ft. sidewalk, (c) bridge 830 ft. long, 30-ft. roadway, 5-ft. sidewalk: C. B. Clark & Co., Baltimore, Md., (a) $58,530; W. S. Low Engineering Co., Rock Hill, S. C., (a) $62,000 and $64,250, (b) $67,150 and $69,400, (c) $63,536 and $65,536; W. J. Oliver, Knoxville, Tenn., (a) $63,422, (b) $70,472, (c) $67,972; David E. Evans & Co., Baltimore, (a) $63,432 and $64,272, (b) $67,950 and $68,750; W. A. Park, Knoxville, (a) $66,000 and $71,000; Nashville Bridge Co., Nashville, Tenn., (a) $70,000, $80,000 and $100,000; Carolina Engineering Co., Burlington, N. C., (a) $90,000; S. I. Bean & Co., Asheville, (a) $95,558; Requarth Engineering Co., Charleston, S. C., (a) $99,200, (b) $115,231, (c) $108,160; I. I. Smith Co., Richmond, Va., (b) $60,000 and $67,000.

FAIRBURN, GA.—Bids will be received until noon, Nov. 1 by E. G. Hammond, Chn. Bd. County Comrs., Fairburn, for constructing a bridge over the tracks of the A. B. & A. R. R. near Mallory's Crossing in Red Oak District, to consist of two concrete piers, two concrete abutments, together with three steel spans 27 ft. each, with a clear roadway between rail posts of 20 ft. 2 ins. L. W. Robert is Engr., Court House, Atlanta.

SAVANNAH, GA.—Chatham County will erect a steel drawbridge across Turner Creek in connection with contemplated road improvements to Wilmington Island.

TAMPA, FLA.—Bids are asked by the Hillsboro County Commissioners, E. J. De Vane, Chn., until Nov. 2, for the construction of a steel draw span across Hillsboro River.

JACKSONVILLE, FLA.—Duval County is having plans prepared by the County Engineer for the construction of bridges across Six-Mile and Little Pottsburg Creeks.

SANFORD, FLA.—The city has voted $80,000 of bonds for bridges and streets.

PURVIS, MISS.—Bids are asked by C. V. Hathorn, Chancery Clk., Purvis, until Nov. 2, for erecting a steel bridge across Black Creek, four miles northeast of Purvis.

MERIDIAN, MISS.—The city is having plans prepared by the City Engineer for a concrete bridge on 35th Ave. and Seventh St., and for a bridge on 17th Ave. and Sixth St.

OSYKA, MISS.—The Pike County Board of Supervisors, W. C. Vaught, Clk., Magnolia, Miss., will let contract on Nov. 1 for the construction of a steel-span bridge across the Tangipahoa River near Osyka; also for proposed Alford and Craft's bridges across Magee's Creek.

ST. BERNARD, LA.—NAT. SCOTT, it is reported, has secured contract to construct ten steel bridges across Bayou Terra-aux Boeufs for the Commissioners of the Bayou Terra-aux Boeufs Drainage District.

CENTREVILLE, TENN.—Hickman County will issue $13,000 of bonds for bridge construction.

CLEVELAND, OHIO.—Bids will be received until Nov. 16 by the Board Public Service, E. H. McIntosh, Secy., for constructing the substructure of a highway bridge and approaches over the tracks of the New York Central & St. Louis Ry., and raising the bridge over Walworth Run to the new grade. The work will include about 2,400 yds. reinforced concrete, 4,000 yds. plain concrete, 601 yds. stone masonry, 14,000 ft. of piling.

CINCINNATI, OHIO.—Bids are asked by the Board of County Commissioners until noon, Nov. 19, for the construction of a concrete bridge on the Compton Road, Springfield Township. Fred Dreihs is Clk.

*PEORIA, ILL.—Bids are asked until noon, Nov. 6, by the Commissioner of Public Works for removing certain portions of concrete bridge across the Illinois River at foot of Bridge St. Specifications and blue-prints are on file at office of Engineering News, New York.

DES MOINES, IOWA.—The City Council has adopted a resolution instructing the City Engineer to prepare plans for a concrete bridge over the Des Moines River at Walnut St. Estimated cost, $150,000.

*BURLINGTON, IOWA.—Bids are asked by the City Council until 4 p. m., Nov. 1, for repaving the Cascade Bridge. J. F. Winters is City Engr.

LEAVENWORTH, KAN.—Bids are asked until Nov. 1 by the County for constructing reinforced-concrete abutment and replacing Bridge No. 275; repairing two abutments and constructing a 42-ft. span bridge to have concrete floor and constructing 6 × 8-in. reinforced-concret arched culvert. J. W. Nichous is County Audr.

ABERDEEN, S. DAK.—Bids are asked until 2 p. m., Nov. 16, by the Brown County Commissioners for the construction of various bridges. John C. Daly is County Audr.

SAN ANGELO, TEX.—The city and Tom Green County will construct a bridge across North Concho River.

HOQUIAM, WASH.—The C. G. SHEELEY CONTRACTING CO., 219 McPhee Bldg., Denver, Colo., was awarded contract on Oct. 13 by the Council for the construction of a new steel bridge at Eighth St. at $65,000. The bridge will be 300 ft. long, 24-ft. driveway, 4-ft. walk, center pier, 34 ft. in diameter.

BELLINGHAM, WASH.—Contract for constructing the steel bridge over the North Fork of the Noosack River, bids opened on Oct. 6, has been awarded to the PUGET SOUND BRIDGE & DREDGING CO., 95 Yesler Way, Seattle, at $5,410.

PASADENA, CAL.—An agreement has been reached between the Bridge Committee of the Board of Trade and the Highway Commissioners and as a result plans and specifications for both a low and a high bridge to be constructed across the Arroyo Seco at the west end of Colorado St. will be prepared.

RIVERTON, UTAH.—Bids are asked until noon, Nov. 1, by the County Commissioners, Salt Lake City, for the construction of a cement or a steel bridge over the Jordan River at Riverton. Margaret Zane Witcher is County Clk.

SILVER CITY, IDAHO.—We are officially advised that contract for the construction of a bridge in Bruneau Valley, across Dry Creek, was awarded on Oct. 13 to J. L. WEES, of Orcana, Idaho, by the County.

MONTREAL, QUE.—Bids for the reconstruction of the bridge over the railway tracks on St. Catherine St., east, were received as follows on Oct. 19 by the Roads Committee: Dominion Bridge Co., Montreal, $63,091; E. G. M. Cape, Montreal, $63,886.

TORONTO, ONT.—The DICKSON BRIDGE CO., of Campbellford, Ontario, has been awarded contract for the steel superstructure of the Wilton Ave. bridge. Their bid is for 875,644 lbs. of material at $4.00 per cwt., or $35,809. Other bids were: Sir William Arrol, of Glasgow, Scotland, $45,645; F. H. McGuigan, of Toronto, $51,725; Motherwell Bridge Co., of Motherwell, Scotland, $64,872; Cleveland Bridge & Engineering Co., of Darlington, England, $45,562.

VANCOUVER, B. C.—Bids will be received by the Mayor and Council until Nov. 12, extension of time from Oct. 26, for building a bridge over False Creek between Bridge St. and Beatty St. Waddell & Harrington are Consulting Engrs., Kansas City, Mo.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

WORCESTER, MASS.—We are officially advised that the Palace Auto Station, Inc., will erect a fireproof garage at Worcester. The building will be two stories high, 80 × 142 ft. Joseph C. Schaeffler & Co., 73 Tremont St., Boston, and 151 West 91st St., New York, are Archs. and Engrs. Pumps, turntables, etc., will be needed.

SPRINGFIELD, MASS.—We are officially advised that bids for a 5-story steel, stone and brick Fire Headquarters building, to cost $90,000, will be received in November by B. Hammett Seabury, 21 Besse Bldg., Springfield.

B. Hammett Seabury, Arch., Besse Bldg., Springfield, has completed plans for a church to be erected at Union and Hancock Sts. for St. John's Congregational Church, Rev. Wm. N. De Berry, pastor. It will be of frame construction, about 60 ft. square, with a stone tower. There will be steam heat, electric lights and all conveniences. We are advised that bids probably will be received next spring.

The Hampden Hotel Co., which is to erect and operate the Hotel Kimball, at Bridge and Chestnut Sts., has awarded the contract for the foundations to FRED T. LEVY & CO., 307 Main St., Springfield. The general building contract has not been awarded. The foundation walls are to be of concrete, and 15,000 cu. yds. of the material will be required. The hotel will be 185 × 115 ft. and cost about $500,000. Samuel M. Green, Inc., Springfield, are Archs. Noted on Sept. 30.

BOSTON, MASS.—The contract to erect a high school at Codman Sq., Boston, has been awarded to WILLIAM CRANE, 7 Water St. Hartwell, Richardson & Driver, 62 Devonshire St., are Archs. The structure will be of brick and stone, three stories and basement, 122 × 110 ft. Cost, $125,000.

HOLYOKE, MASS.—The Parish of the Immaculate Conception, Holyoke, contemplates erecting a church at Ely and North Sts. Rev. J. B. Campeau is Rector. Cost, $50,000.

PITTSFIELD, MASS.—Bids were received as follows on Oct. 25 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Pittsfield, Mass.: J. E. & A. L. Pennock, Land Title Bldg., Philadelphia, $76,800; M. P. Wells, Philadelphia, $76,907; Conners Bros. Co., Lowell, Mass., $78,780; Woodbury & Leighton, 166 Devonshire St., Boston, Mass., $79,890; Horton & Heminway, 683 Atlantic Ave., Boston, Mass., $79,999; Oscawana Building Co., 200 Fifth Ave., New York, $72,000; Wills & Marvin Co., 1170 Broadway, New York, $76,001; Watertown Construction Co., Watertown, N. Y., $77,833; William F. Fissell & Co., 1133 Broadway, New York, $76,900; Wheaton Building & Lumber Co., Putnam, Conn., $82,700; A. E. Stevens Co., Binghamton, N. Y., $80,000; Norcross Bros. Co., Worcester, Mass., $84,000. Time, Oct. 31, 1910.

*NEW LONDON, CONN.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Nov. 30, for construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of an extension, etc., to the U. S. post-office at New London.

NEW HAVEN, CONN.—Bids are asked by Allen & Williams, Archs., 82 Church st., New Haven, until noon, Nov. 19, for the mason work, structural steel and ornamental iron work, carpenter work, steam heating and ventilating, plumbing, electric light wiring, painting and elevators, required in the construction of the New Haven County courthouse, at New Haven. Jacob D. Walter is Chn. of State Legislative Com.

BRIDGEPORT, CONN.—Plans are being made by E. G. Southey, Arch., Masonic Temple, Bridgeport, for a warehouse to be erected in Lindley St. by Frederick C. Eckart. The building will be 42 × 140 ft., one story, of brick. When completed the building will be occupied by the National Biscuit Co.

GREENWICH, CONN.—Walker & Gillette, Archs., 131 West 40th St., New York, are taking estimates for the proposed club house for the Fairfield County Golf Club. It will be of brick and frame construction, two stories, and will cost about $50,000.

HARTFORD, CONN.—Thomas D. Bradstreet, State Comptroller, Hartford, Conn., invites competitive plans until noon, Nov. 20, for an armory at Stamford to cost $50,000 and one at Torrington to cost $40,000, appropriations for which have been made by the General Assembly.

WILLIMANTIC, CONN.—The contract for the proposed school building here has not been awarded. It was found that the lowest figures submitted was in excess of the appropriation. The plans will be revised and the lowest bidders will be invited to submit amended bids.

NEW YORK, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., until 10.30 a. m., Nov. 8, for furnishing all the labor and materials required for the erection and completion of a building for an engine and a hook and ladder company on southwest corner of Smith and Lorraine Sts., Boro. of Brooklyn.

Tentative plans have been drawn up by D. H. Burnham & Son, Archs., Railway Exchange Bldg., Chicago, for a 20-story hotel to be built by New York and Southern capitalists at a cost of $3,000,000, probably on the southwest corner of Madison Ave. and 42d St. The proposed structure will be of steel, terra cotta and granite and will be modeled architecturally after the Plaza and the St. Regis hotels. It will contain about 600 rooms and will cover an area of 20,000 sq. ft. The site of the proposed hotel fronts 144 ft. on 42d St. and 98.9 on Madison Ave. It is owned by the Thompson-Starrett Co., 49 Wall St. The facades of the building will be of terra cotta, limestone and light brick with a mansard roof. There will be 600 rooms and a large amount of marble, tile and ornamental decorations, restaurant and cafe, palm rooom and private dining rooms. Gustave Baumann represents the Holland House Co., which will build the structure.

Edward J. Byrne, Arch., 3029 Third Ave., is preparing plans for two 5-story flat houses for the Tully Construction Co., to be erected on the east side of Intervale Ave., 86 ft. south of 165th St., and to cost $80,000.

Plans were filed for a parochial school to be built for the Roman Catholic Church of St. Columbia, of which the Rev. Dr. Thomas A. Thornton is Rector, at 331 and 333 West 25th St., adjoining the church and replacing the old-fashioned school house. It is to be four stories high, with an assembly hall and a mezzanine story on the main floor, and is to cost $100,000. T. H. Pool & Co., 13 West 30th St., are Archs.

NEW YORK, N. Y.—Bids are asked by Robert W. Hebberd, Comr. of Public Charities, until 2.30 p. m., Nov. 4, for furnishing all the labor and materials required for the installation of a new steam heating system in the fire engine house, Blackwell's Island, the City of New York.

Weschler & Noel, 299 Broadway, have acquired property at 147 to 153 West 79th St., upon which will be erected an elevator apartment house, measuring 63 × 102.2 ft. The site is now covered with three 3-story and one 4-story stone dwellings. The Title Insurance Co. has made a building loan of $225,000 on the property. Schwartz & Gross, Archs., 347 Fifth Ave., have been commissioned to prepare the plans. No contracts have been let.

McKim, Mead & White, Archs., 160 Fifth Ave., have filed plans for a 4-story and attic dwelling to be the home of Percy R. Pyne, on the northwest corner of Park Ave. and 68th St., 51 × 100 ft., opposite the Normal College. It is to be in Colonial design, with facades of ornamental limestone, an entrance adorned with Ionic pillars and arched windows with small balconies of decorative iron at the second story. It will be crowned with a mansard and balustrade. On the main floor will be a billiard room, opening off the reception room, and the second floor will have a large hall, with salon and dining room on one side, library and den on the other. On the upper floors will be living and sleeping rooms, with two dormitories for the boys of the household. The main story will be finished with a series of swell bays at front and rear. The building is to cost $100,000.

The Gerard Operating Co., 1423 St. Nicholas Ave., will erect on the north side of 182d St., 125 ft. east of St. Nicholas Ave, a 5-story flat building, 75 × 67.9 ft., to cost $65,000. George Fred Pelham, Arch., 507 Fifth Ave., is preparing plans.

York & Sawyer, Archs., 156 Fifth Ave., are preparing plans for the 10-story building to be erected by the Chemists' Club, 108 West 55th St., at 50 to 54 East 41st St., on a plot 50.8 × 98.9 ft., purchased by Morris Loeb, Pres. of the club. The Chemists' Building Co. has been incorporated with a capital of $200,000, to complete the operation.

NEW YORK, N. Y.—We are officially advised that Albert Morris, Arch., 103 Park Ave., is drawing plans for four 5-story non-fireproof apartment houses, 40 × 97 ft., to be erected at the southeast corner of 180th St. and Clinton Ave. for the Brook Construction Co., 60 Liberty St. The building will cost about $130,000. Contracts are being let by the owner.

We are officially informed that plans have been completed by Brown, McAghon & Strasle, Archs., 31-33 East 27th St., New York, for the Ridley Memorial Methodist Episcopal Church to be erected on Ocean Parkway and Fosler Ave., Brooklyn, at a cost of $40,000. The building planned for will be 1½-stories high, brick and limestone, non-fireproof, measuring 80 × 100 ft., having a seating capacity of 1,000. The Rev. T. T. Martin, 190 Lawrence Ave., Brooklyn, is Pastor. Contracts will be let about Nov. 15.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. of Water Supply, Gas and Electricity, until 2 p.m., Nov. 10, for erecting a building for storehouse and shop at the pumping station, located near Amsterdam Ave. and 179th St., Boro. of Manhattan.

Following are the bids received on Oct. 25 by Nicholas J. Hayes, Fire Comr., for furnishing all the labor and materials required for additions and alterations to building of Engine Company 115, located at 88 India St., Boro. of Brooklyn: George F. Driscoll, 391 Fulton St., Brooklyn, $29,724; Daniel J. Ryan, $33,700; Morningside Construction Co., $33,500; Cornelius J. Horgen, $31,800; George Hilderbrand, $31,824; Conroy Bros., Inc., $28,898; James F. Kerr, $30,345; George J. & W. Martin, $30,575; William J. Moran, $31,313; J. M. Knopp, 230 West 19th St., New York, $30,500; Concourse Construction Co., $33,094.

NEW YORK, N. Y.—The following bids were received on Oct. 20 by Nicholas J. Hayes, Fire Comr., for furnishing all the labor and materials required for the completion of an annex and additions and alterations to the present Fire Headquarters building, located on East 68th St. and East 67th St., between Lexington and Third Aves.: N. B. Smyth, 1123 Broadway, $87,681; Morningside Const. Co., $95,000; F. T. Nesbit Co., 116 Nassau St., $102,500; Conroy Bros., Inc., 217 West 125th St., $104,625; A. & W. Gray & Co., Flatiron Bldg., $103,800.

Albert Joseph Bodker, Arch., 27 West 37th St., has been commissioned to prepare plans for the residence which Oakleigh Thorne, Pres. of the Trust Co. of America, 37 Wall St., is to erect at the northeast corner of Park Ave. and 73d St., on a plot 27 × 96 ft. Total cost, $250,000. No contract has been let.

The Board of Trustees of the Williamsburgh Hospital, Bedford Ave. and South Third St., Brooklyn, has decided to build a larger structure. This will have a capacity for 200 patients. The proposed building, which will be erected as soon as sufficient money is raised, is planned in the form of an L, one leg being 117 ft. long by 42 ft. wide, and the other 90 ft. long by 27 ft. wide. The latter leg may be built first alongside the present hospital buildings, and, after it is

completed, the present structures may be torn down and the first leg built. The new building will be six stories high with a basement. There will be an abundance of runway alongside of the smaller leg, and at the end of the runway will be the ambulance stables.

Shampan & Shampan, Archs., 772 Broadway, Brooklyn, are preparing plans for ten 2-story brick and limestone residences to be located at the southwest corner of Seventh Ave. and 76th St., and the northwest corner of Seventh Ave. and 77th St. for the Walbloom Construction Co. The facades will be designed in Elizabethian style and a modern Greek architecture. The fronts will be entirely of Indiana limestone, ashlar. Each building will be 20 × 62 ft., set back of building line so as a terrace will be obtained which will be ornamented with flowers, urns, etc. The approximate estimate of the entire ten houses will be about $74,000.

The same architects are preparing plans for improving the block on Lewis, Vernon and Willoughby Aves, 200 × 100 ft., with new buildings.

NEW YORK, N. Y.—Bids are asked by Robert W. Hebberd, Comr. of Public Charities until 2.30 p. m., Nov. 4, for furnishing all the labor and materials required for the installation of a steam heating system in building 124 East 59th St., Boro. of Manhattan, the City of New York.

Hoppin & Koen, Archs., 244 Fifth Ave., have filed plans for a 6-story dwelling house, to be built for John M. Bowers, at 45 East 65th St. It is to be of faced brick, trimmed with ornamental limestone, in the style of Louis XVI. Renaissance period, with a mansard and large casement windows, and decorative balustrades. There will be a central grand hall, off which will open on the main floor the dining room and reception parlor, and the library and drawing room on the second story. The third floor will contain the owner's law library. The building will have a frontage of 28 ft. and a depth of 68 ft., with an extension. It is to cost $50,000.

Plans are being completed for a 12-story elevator apartment house, measuring 100.11 × 115 ft. each, one to be erected by the Brookfield Construction Co., of 50 Church St., at the northeast corner of Riverside Drive and 103d St., from plans by Lawlor & Haase, 69 Wall St., to cost $800,000.

A 12-story apartment house is being planned by Neville & Bagge, 217 West 125th St., for the Guide Realty Co., to be erected at West End Ave., and southwest corner of 100th St., to cost $800,000.

Clinton & Russell, Archs., 32 Nassau St., have plans ready for the 12-story office building 96 × 130 ft., to be erected by the One Hundred and Twenty-five William St. Co. Charles H. Topping, 15 William St., is Pres., at 123-133 William St. The THOMPSON-STARRETT CO., 49 Wall St., has the contract.

MOUNT VERNON, N. Y.—The Mount Vernon Hospital Association will soon begin the erection of a new hollow tile and brick hospital, 3 and 4 stories, 44 × 112 ft., at Mount Vernon, to cost $75,000. M. See & Son, 6 West 22d St., Manhattan, are Archts.

BUFFALO, N. Y.—Steps are being taken by the officials and members of the Buffalo Manufacturers' Club, Frank A. Beyes, Pres.; Edward B. Harvey, Secy., Coal and Iron Exchange Bldg. to secure the erection of an exhibition building in which the annual industrial expositions inaugurated by this club and participated in by all local manufacturing industries can be held.

The 65th Armory building on Broadway, in which the second annual exposition, given under the auspices of the Buffalo Manufacturers' Club was recently held, is to be torn down soon to make room for the erection of the new Technical High School.

Esenwein & Johnson, Archs., 777 Ellicott Sq. Bldg., are preparing plans for a 13-story and basement addition, 50 × 90 ft., to be made to the Statler Hotel, Swan and Washington Sts. E. M. Statler is proprietor. The building will have steel frame and glazed terra cotta exterior, with 140 rooms and baths. Cost, $350,000.

Green & Wicks, Archs., 110 Franklin St., are preparing plans for the Niagara Storage Warehouse Co. for a storage warehouse, 40 × 126 ft., six stories and basement, and barn, 26 × 45 ft., steel and brick with concrete roof, fireproof, to be erected on Niagara St., between Georgia and Carolina Sts. Cost, $60,000. Ole L. Snyder is Pres., 1011 Mutual Life Bldg.

*FORT TERRY, N. Y.—Bids are asked by the Constructing Q. M., New London, Conn., until 10 a. m., Nov. 22, for constructing an addition to hospital at Fort Terry, N. Y., and for installing heating system in same.

HAMBURG, N. Y.—Bids are asked until Nov. 1, by School District No. 1 for constructing a brick and stone school building, three stories high and to cost $45,000 complete. Thomas W. Harris, Erie County Bank Bldg., Buffalo, N. Y., is Arch.

GLEN COVE (L. I.), N. Y.—Clifford V. Brokaw will erect a Colonial house costing about $175,000 on the Walter E. Duryea estate tract at Glen Cove, which he purchased recently through William L. Hicks for $150,000. Plans for the dwelling, which will measure 200 × 70 ft., have been prepared by Little & O'Connor, 5 West 31st St., New York, who have also drawn plans for an extensive garage. The Duryea estate comprises 52 acres. The contract has been let to R. H. McDONALD, 29 West 34th St.

INDUSTRY, N. Y.—Bids will be received by Miss Lura E. Aldridge, Pres. Bd. of Mgrs. of the Agricultural Industrial School, at Industry, N. Y., until 7 p. m., Nov. 9, for the construction of three cottages for boys and five cottages for employes, including heating, plumbing and electric work. F. B. Ware is State Arch., Albany.

BEDFORD, N. Y.—Bids will be received by James Wood, Pres. Bd. of Mgrs. of the Reformatory for Women, at Bedford, N. Y., until noon, Nov. 12, for construction of cottage for inmates, including heating and plumbing. F. B. Ware is State Arch., Albany.

BROCKPORT, N. Y.—Bids will be received by Dr. Andrew S. Draper, Comr. of Education, Albany, until noon, Nov. 8, for repairs and alterations to library buildings, changes to entrance porch, Training School Building, at the N. Y. State Normal School, at Brockport, N. Y. F. B. Ware is State Arch., Albany.

OLEAN, N. Y.—The bids received on Oct. 20 by the State Armory Commission for various improvements at the State Armory at Olean, N. Y., consisting of the construction of an administration building and reconstruction of drill shed, including heating, plumbing, electric and gas piping, were: Pulford & Dempsey Construction Co., Elmira, N. Y., $79,100; Dean & Havens, Olean, N. Y., $88,891; B. U. Taylor Co., Olean, N. Y., $78,321; Snyder-Gillet Contracting Co., Niagara Falls, N. Y., $95,275. Major F. A. McNeeley is Secy. of Comn.

HACKENSACK, N. J.—Contractors soon will be invited to figure plans for the proposed high school at Hackensack, which is to cost about $285,000. The plans call for a building of brick and terra cotta with steel columns and girders to be finished with faced brick, stone and terra cotta. The Board of Education will take the estimates.

NEWARK, N. J.—It is stated that F. F. Proctor will begin within a short time the erection of his proposed theatre in Market St., land for which has been purchased. The plans for the building have been changed since they were first announced, and a 5-story office building is to occupy the Market St. frontage. William E. Lehman, 738 Broad St., Newark, is Arch. The estimated cost is $700,000.

The Baptist Home for the Aged, 285 Roseville Ave., will erect a 4-story brick, stone and steel home, 120 x 60 ft., at Newark, to cost $60,000. A. F. Leicht, 9 West 42d St., New York, has completed plans. Estimated cost, $60,000.

NEW BRUNSWICK, N. J.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Dec. 2, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of an extension, remodeling, etc., to the U. S. post-office at New Brunswick.

OAKLAND STATION (Pittsburg post-office), PA.—George H. Schwan, Arch., Berger Bldg., Pittsburg, is receiving estimates on the erection in the Schenley Farms, Oakland, of a club house for the Twentieth Century Club to cost $100,000.

PHILADELPHIA, PA.—Bids are asked by the Quartermaster, U. S. Marine Corps, Washington, D. C., until 11 a. m., Nov. 18, for the erection of an extension to the Marine Barracks, Navy Yard, Philadelphia, Pa.

PHILADELPHIA, PA.—IRWIN & LEIGHTON have contracts from Sauer & Hahn, Archs., 1112 Chestnut St., for the erection of two 2-story garages, each 40 × 120 ft., at the southwest corner of Broad and Callowhill Sts. for Samuel Steinberger. The cost will be $45,000. The work of erection will be begun at once.

Estimates will be invited at once upon plans for a 4-story brick and stone building at the northeast corner of Spring Garden and Percy Sts. for the Philadelphia & Reading Ry. Co. It will contain offices for various departments of the railway, and quarters for the Y. M. C. A. connected with the railway. The plans for the structure, which will measure 50 × 250 ft., were drawn by Clarke Dillenbeck. The cost is estimated to be close to $250,000. William Hunter, Philadelphia, is Ch. Engr.

Carl P. Berger, Arch., South Penn Sq. Bldg., will have plans and specifications ready for estimates soon for a vaudeville theater, to be built at the northwest corner of Front St. and Girard Ave. for the Jumbo Amusement Co., Robert W. Hagner, Pres. The building will be of brick, 100 × 150 ft., fireproof.

FORT WASHINGTON, MD.—Bids are asked by H. L. Petttus, Constr. Q. M., Washington, Takoma Substation, D. C., until noon, Nov. 15, for the construction, including plumbing, heating, electric wiring and electric lighting fixtures of two single sets of Field Officers' quarters, one double set N. C. O.'s quarters, one Quartermaster's workshop, one coal shed, one extension to ordnance shop, and one bakery at Fort Washington, Md.

BALTIMORE, MD.—The Joseph L. White Realty Co. has been granted a permit to build 48 2-story houses on Robinson St., between Bank and Gough St., to cost about $60,000. Plans were made by Charles Broring. Each building will be 12 × 42 ft. Furnace heat will be used and the fronts will be of pressed brick, with marble trimmings.

WASHINGTON, D. C.—J. H. De Sibour, Arch., 527 Fifth Ave., New York, has completed plans and awarded to the BOYLE-ROBERTSON CONSTRUCTION CO., Union Trust Bldg., Washington, the general contract to erect a 3-story Science Hall, 127 × 65 ft., of reinforced concrete, stone and ornamental terra cotta at Washington, to cost about $80,000.

Bids are asked by the Commissioners of the District of Columbia until noon, Nov. 1, for furnishing and erecting five portable school buildings in the District of Columbia, size approximately 25 × 39 ft., one story, with heating and ventilation complete. Bidders are to submit their own plans and specifications, giving complete description of buildings and materials; the time within which they will furnish and erect the buildings, and the price for taking down and re-erecting the buildings within one mile of the original site.

FORT McPHERSON, GA.—Bids are asked by Capt. Percy M. Cochran, Constr. Q. M., until 11 a. m., Nov. 16, for the construction of a brick stable for 74 animals and installing therein plumbing and electric wiring and fixtures.

MONTGOMERY, ALA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Nov. 24, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of an extension, remodeling, etc., to the U. S. court-house, post-office, etc., at Montgomery.

CLEVELAND, OHIO.—A $500,000 terminal station for all the surface and interurban street car lines in Cleveland with facilities for handling subway and elevated terminal traffic is being planned by real estate and business men, according to the Cleveland "Leader." Tentative plans for such a structure have been drawn. These provide for a 4-story building, 650 ft. long, extending from East Eleventh St., between Chestnut and Walnut Aves., to a point east of East Twelfth St. The latter thoroughfare would run beneath the building under an archway formed by a division of the first floor. One of the most important features of the plan is to build a subway from the station to the Union Depot and boat landings and an elevated structure from the station as far as East 40th St. It is planned to bring the interurban cars to the terminal by way of the subways and elevated. The men behind the project have based their plans for a subway on the future building of a union station and steamship piers on the lake front. The plans for the building provide for stores on the ground floor, waiting rooms, restaurant and package rooms on the second floor, offices of railroad and supply companies on the third floors. The projectors plan to construct on the fourth floor a music hall. The building plans provide for stairways leading from the street to the second floor where the elevated trains would be boarded. All surface cars would arrive and depart from the surface floor of the building. The subway cars would enter by way of tunnels. The station would be the transfer point for all lines. B. T. Quilling, of the Pennington-Quilling Co., the Williamson Bldg., is interested.

COLUMBUS, OHIO.—Bids are asked by the Board of Managers of the Ohio Penitentiary until noon, Nov. 15, on the labor and materials, or either or both, required in the installation of a plumbing system in a block of 150 steel cells with sewer connections for an additional 150 cells, all to be in accordance with the plans and specifications prepared by Marriott & Allen, Archs., Clinton Bank Building, Columbus, and the Osborn Engineering Co., Engrs., Osborn Bldg., Cleveland, Ohio. George U. Maruin is Secy.

COLUMBUS BARRACKS (Columbus post-office), OHIO.—Bids are asked until 10 a. m. Nov. 15, by Capt. H. J. Hirsch, Constr. Q. M., for the construction of one double set N. C. O.'s quarters at this post, including plumbing, heating, electric light wiring and fixtures, etc.

HAMMOND, IND.—Bids are asked by the Lake County Commissioners, at Crown Point, Ind., until Nov. 1 for additions, alterations, etc., at the court-house at Hammond. Chas. A. Johnson is County Audr.

FORT WAYNE (Detroit post-office), MICH.—Bids are asked by Capt. D. W. Kilburn, Q. M., until 11 a. m., Nov. 18, for the construction of a set of quarters for four officers, including plumbing, steam heating, gas piping and electric wiring and combination fixtures.

MANITOWOC, MICH.—Bids were received as follows on Oct. 20 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Manitowoc, Wis.: Majestic Construction Co., Milwaukee, Wis., $72,492; Hazelton & Walin, Chicago, $76,000; Northern Construction Co., Milwaukee, Wis., $83,000; Paul Riesen's Sons Co., Milwaukee, Wis., $77,000; Tomchek & Goetzler, Manitowoc, Wis., $85,900; General Construction Co., Hathaway Bldg., Milwaukee, Wis., $73,000.

ROCK ISLAND, ILL.—Bids are asked until 3 p. m., Nov. 18, by James Knox Taylor for the construction (including plumbing, heating, wiring and standard clock system) of the extension of the U. S. post-office at Rock Island.

CHICAGO, ILL.—James McCrea, Pres. of the Pennsylvania R. R. Co., announces plans for the erection of a Chicago union passenger and terminal station on Canal St., to cost not less than $25,000,000. With the Pennsylvania in the project are to be joined, as partners, the Chicago & Alton, the Chicago, Burlington & Quincy and the Chicago, Milwaukee & St. Paul railroads, all users of the present Union Station. The Chicago "Record-Herald" states that the Pennsylvania officials hope to be able to begin work on the terminal soon after the first of the year and rush it to completion as rapidly as possible. Before work can be begun, however, it is understood that several ordinances will have to be sought from the city. One of these will be for the closing of Canal St. and others for the erection of overhead viaducts on some of the east and west streets. It is reported that the depot will occupy most of the space between Canal and Clinton Sts., from Madison St. south to Van Buren St. It is the desire to have the depot face on Madison St., which will bring it opposite the $20,000,000 terminal which is being erected by the Northwestern Road. The engineers have worked out all the details, and they are said to provide for 30 tracks. A. C. Shand, Philadelphia, is Ch. Engr., P. R. R.

Property measuring 125 × 154 ft. in Wabash Ave., north of 39th St., has been transferred to the Eighth Regiment, I. N. G., Col. John R. Marshall, taking title, and an armory building, to be known as the Eighth Regiment Armory, is to be erected at once at a cost of approximately $150,000. The building will occupy the entire lot. The building is to be of brick, stone and steel construction, and Col. Marshall is to ask the legislature at its next session for an appropriation equal to the actual cost of the armory building.

COUNCIL BLUFFS, IOWA.—Bids are asked by James Knox Taylor, until 3 p. m. Nov. 26, for a lighting and conduit system, for plumbing and gas piping and for the heating apparatus at the U. S. post-office and court-house and extension thereto at Council Bluffs.

MINNEAPOLIS, MINN.—Local press reports state that James J. Hill, pres. of the Great Northern, has purchased property on both sides of the Mississippi River at Fourth Ave. North. It is stated that a union station to cost $1,000,000 will be built in this vicinity.

LEAD, S. DAK.—Bids were opened as follows, on Oct. 26, by James Knox Taylor, Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office at Lead, S. Dak.: J. W. Miller, St. Paul, Minn., $60,759; J. H. Weise, South Omaha, Neb., $65,477; Newport Construction & Engineering Co., Newport News, Va., $65,236.

ST. LOUIS, MO.—At a meeting of the Committee of Finance held on Oct. 21 it was voted to report to the city government in favor of the proposed police headquarters building, which, according to the figures given out some time ago by the Police Commissioners, will cost about $130,000, aside from the land on which it will be placed. This is already paid for. The cost of the new building probably will be more than the $130,000 estimate. William W. Lester is Police Comr.

DENISON, TEX.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Denison, Tex., to FELL & AINSWORTH, of Waco, Tex., at $64,700.

DENVER, COLO.—Bids are asked by William H. Burchinell, Secy. State Bd. of Capitol Mgrs., until noon, Oct. 30, for certain portions of excavation work and foundation walls and footings entering into the construction of the Colorado State Museum Building. Plans have been prepared by the F. E. Edbrooke Architect Co., Opera House Bldg.

SEATTLE, WASH.—The contract for the erection of a passenger station, the terminus of the Harriman lines, whose entrance to the city is by the Oregon & Washington R. R., has been awarded to the THOMPSON-STARRETT CO., 49 Wall St., New York. Its bid was approximately $450,000. The building will be constructed of reinforced concrete. There will be a semi-circular arched ceiling over the general waiting room. The exterior walls will be covered with a dark red brick, with trimmings of white artificial stone. The interior of the general waiting room will have tiled wainscoting and floors. A separate heating plant will be installed in another part of the track yard to furnish heat for the building. The plans for the building were prepared by H. J. Patterson, of San Francisco, Arch. for the Harriman lines.

SPOKANE, WASH.—We are officially advised that the Imperial Investment Co. has bought a site 80 × 110 ft. at the southwest corner of First Ave. and Cedar St., which will be improved with a 4-story building costing $60,000. The ground was bought from James Cronin and Charles Theis for $38,000. C. F. Clough & Co. made the sale. Andrew Laidlaw is principal owner and manager of the Imperial Investment Co. The property bought is described as Lots 1 and 2, Block 14, Browne's Addition. The corner lot is 32 ft. wide and the inside lot is 32 ft. wide. The average depth is 110 ft. Plans are being drawn for the building, which is to occupy the entire site. There will be stores on the first floor and about 100 rooms in the three upper stories, which will be used for a hotel. The building will be steam heated and all the rooms will have hot and cold water and large closets. L. L. Rand, The Rookery, Spokane, is Arch. Bids will be received about Nov. 1.

Plans for the St. Aloysius Church have been completed by Preusse & Zittle, Archs., Jamieson Bldg., Spokane. The church will cost about $100,000, and the greater part of the funds are provided by Gonzaga College. The structure will occupy the site of the present St. Aloysius Church. In architecture the structure is after the Ionic type. It will be constructed of brick and cut stone.

PORTLAND, ORE.—The contract for erecting the Hellig Theater, on Seventh and Taylor Sts., has been awarded to the UNITED ENGINEERING & CONSTRUCTION CO., and work will be commenced as soon as the steel, which will be furnished by an Eastern concern, is delivered in Portland. The structure will cost $150,000.

Arrangements are being made by C. E. Runyon, of Portland, to erect on the quarter block at the northeast corner of Sixth and Madison Sts. a fireproof automobile garage, which will be occupied by the White Motor Car Co., to whom it has been leased for a period of ten years. Plans will be ready in a short time. The building and grounds will represent an investment of from $125,000 to $150,000.

Plans and specifications have been prepared in the office of Douglas W. Taylor, City Engr., for a 2-story and basement building, which will be built on Powell St., near Milwaukee Ave., at Sellwood, to be used for the city as a stable. It will be 80 × 200 ft., with concrete basement walls, the upper stories of brick, and will cost from $50,000 to $60,000. Plans will be ready for bids in a short time.

LOS ANGELES, CAL.—Two 7-story Class A buildings will be erected on the south side of West Seventh St., between Hope and Flower Sts., for Mrs. Henry Martz. Each of the buildings will be 150 ft. square, and, with a court 30 ft. in width to be constructed between them, will occupy the entire frontage of the block. A portion of one building will be erected immediately, and the remainder, and the other structure, will be constructed some time later. The portion to be built at once will be two stories high, and will be located at the southwest corner of Seventh and Hope Sts. A 2-story building

now on the site will be removed, and excavating for the foundation will be begun about Nov. 1. The buildings will be constructed of steel and concrete, and will be fireproof. The fronts will be of pressed brick and terra cotta. The plans have been so prepared that the floors above the first may be arranged for use as apartments or offices. The second floor of the part of the building to be erected at once will contain apartments. The interior finish will be in mahogany and birch. The first floor will contain four stores that will front on Seventh St. and two with entrances from the court. The plans were prepared by Parkinson & Bergstrom, Archs., Security Bldg.

Kitchen, Johnston & Duke will erect a $110,000 apartment house on the southeast corner of Wilshire Boulevard and Carondelet St. C. F. McDonald is Arch.

SACRAMENTO, CAL.—We are officially advised that the Chamber of Commerce Building Association has instructed its board of directors to take the necessary steps toward the erection of a $200,000 brick and stone fireproof Class A, 8-story building, to be erected on its property on Seventh St., between I and J Sts., which was recently destroyed by fire. The plans will give the Chamber of Commerce an auditorium on the second floor sufficient to seat 500 persons. Ample room will be provided for the Chamber of Commerce offices and exhibit rooms, while the balance of the building will be devoted to offices. The ground floor will be rented to stores. D. W. Carmichael is Pres. of the Chamber of Commerce.

QUEBEC, QUE.—The contract for the construction of the Provincial Government's Technical School building here has been awarded to SIMONEAU & DION, of Sherbrooke, Que. Their bid was $233,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

MIDDLETOWN, CONN.—Contract for 4,900 ft. of c.-i. water main, etc., bids opened on Oct. 13, has been awarded to CHARLES MILLAR & SON CO., of Utica, N. Y., at $11,592. Henry S. Noble is Supt.

HARTFORD, CONN.—The Court of Common Council has authorized the installation of water mains in Nelson, Greenfield, Mansfield and Sterling Sts. Estimated cost, $6,709.

NORWALK, CONN.—STEPHEN B. CHURCH, of Seymour, Conn., has been awarded contract by the Water Department for the erection of a stand pipe. The U. S. TANK & CONSTRUCTION CO. will furnish the tank for Mr. Church. Tower will be of steel, 80 ft. high above foundation. Tank will be 20 ft. high with a capacity of 50,000 gallons.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., Nov. 10, for furnishing, delivering and laying high pressure fire service mains and appurtenances in 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22d, 23d and 24th Sts., Lexington Ave., Madison Ave., Irving Pl., Union Square East and Gramercy Park East.

*NEW YORK, N. Y.—Bids were received by the Board of Water Supply on Oct. 20 as follows for the construction of Contract No. 55 of the Catskill aqueduct: Reinhart & Dennis Co., Colorado Bldg., Washington, D. C., $4,545,487; MacArthur Bros., 11 Pine St., New York, $4,691,329; George W. Jackson, 10 Wall St., New York, $4,761,010; M. A. Talbott Co., Baltimore, Md., $4,854,170; Bradley-Gaffney-Steers Co., 1 Madison Ave., New York, $5,044,652; United Engineering & Contracting Co., 17 West 42d St., New York, $5,195,782; Pittsburg Contracting Co., Pittsburg, Pa., $5,405,481; C. D. Smith and Hammon & Hickey, St. Louis, Mo., $5,199,076; American Pipe & Construction Co., Philadelphia, Pa., $5,347,960.

NIAGARA FALLS, N. Y.—The Water Comn. on Oct. 14 awarded contract for the pumping stations and the pure and raw water basins to SMITH BROS., of Niagara Falls, at $50,485. Time, 220 days. Local limestone will be used.

*NEWBURGH, N. Y.—Bids are asked by the Board of Water Commissioners until 7.30 p. m., Nov. 15, for constructing a new gate-house and boiler-house and laying about 11,000 ft. of 30-in. c.-i. pipe furnished by the city. Curtis Stanton is Supt. W.-Wks.

BUFFALO, N. Y.—Bids will be received until Nov. 1 by the Department Public Works, Francis G. Ward, Comr., for the removal of rock for foundation of new engine No. 2, and for pump well at the present pumping station.

*ATLANTIC CITY, N. J.—The lowest bid opened on Oct. 19 by the Board of Water Commissioners for laying 48-in. wood stave force main from the Absecon pumping station to the city, a distance of about 25,500 ft., was that of F. S. Lockwood, of Atlantic City, at $224,475 (cedar) and $238,475 (Oregon red wood). L. Van Gilder is Engr. and Supt.

PHILADELPHIA, PA.—See item under Light and Power Plants.

ORANGE, VA.—The city has awarded contract at $6 per ft. for boring well in connection with water-works improvements, to the ARTESIAN WELL & SUPPLY CO., Providence, R. I., and at $850 for making surveys, plans and specifications to WILLIAM NALLE, Culpeper, Va. Bonds for $20,000 have been voted.

KEYSER, W. VA.—The city will spend $20,000 for the construction of a retaining dam at the water-works. Reservoir capacity, 20,000,000 gallons. Lee Schaidt, Cumberland, Md., is Engr.

PARKERSBURG, W. VA.—The City Council has passed an ordinance providing for the purchase and installation of a temporary pump at water-works pumping station, 2,000,000 gallons' capacity. Estimated cost, $20,000. Arthur Geisler is City Engr.

ALBEMARLE, N. C.—J. M. Bandy, Greensboro, N. C., Consulting Engr., is proceeding with plans and surveys for city waterworks, electric-light and sewerage plants. The plans provide for a brick building, concrete reservoir, 300,000 gallons capacity, steel tank and tower, 100,000 gallons capacity.

WILMINGTON, N. C.—Bids will be received by the Water and Sewer Commission, Charles Worth, Chn., until Nov. 1 for manufacturing, delivering and erecting all machinery and a steel water tower needed in the reconstruction of the water-works. Hazlehurst & Anderson, Atlanta, Ga., and Wilmington, N. C., are Engrs.

GREENVILLE, GA.—The city has voted bonds for the construction of water-works.

CUTHBERT, GA.—The citizens on Oct. 12 voted to issue $12,000 of bonds for the construction of water-works.

MACON, GA.—Charles A. Caldwell, of Macon, and Hazlehurst & Anderson, of Atlanta, Consulting Engrs., have prepared plans for water-works for Macon, and have estimated the cost of a plant at $900,000.

QUINCY, FLA.—See item under Light and Power Plants.

JACKSONVILLE, FLA.—Bids were opened on Oct. 12 by the Board of Bond Trustees for 24,000 ft. of 12, 10, 8 and 6-in. water pipe. Contract has been awarded to the U. S. CAST IRON PIPE & FOUNDRY CO., of Chattanooga, Tenn., at $24.70 per ton, and special castings at $48 per ton.

ARDAMAN (Timberville post-office), MISS.—The town has awarded contract to O. E. HANNA, of Kosciusco, Miss., for drilling a deep well for the water supply.

PARK FALLS, WIS.—GREENE BROS., of Albert Lea, Minn., have secured contract for constructing water-works here at about $10,000.

MONTEVIDEO, MINN.—The following are the bids opened on Oct. 4 by the city for laying city water mains: Keogh & Erickson, St. Peter, $14,851; Fairbanks, Morse & Co., St. Paul, $10,310; Greene Bros., Albert Lea, $11,617; W. D. LOWELL, Minneapolis, $9,101 (awarded contract). Fraser & Danforth, Rochester, $10,071.

SABETHA, KAN.—Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., have prepared plans for water-works here. Estimated cost, $5,000.

ST. JOHNS, KAN.—Bids were opened on Oct. 12 by the city for water-works and an electric light plant. Contract for construction has been awarded to MARSHALL BROS., of Las Animas, Colo., at $12,025. Burns & McDonnell are Engrs., Kansas City, Mo.

NELSON, NEB.—Bids will be received by the City Clerk until Oct. 29 for furnishing material and constructing water-works. S. A. Lapp is Mayor.

VALLEY, NEB.—Contract for the construction of an electric-light plant and waterworks system has been awarded to the NATIONAL CO., of South Bend, Ind.

ELLENDALE, N. DAK.—Bids will be received until Nov. 1 by John King, City Audr., for laying a 6-in. water main in Main St.

FARGO, N. DAK.—Bids are asked by N. C. Morgan, City Audr., until 5 p. m., Nov. 1, for constructing water mains in Broadway, Sixth Ave., 8½ N. and Twelfth Sts., requiring in all about 4,040 lin. ft. of 12, 10, 8 and 6-in. c.-i. pipe.

WAXAHACHIE, TEX.—The city has voted $17,000 of bonds for improvements to the water-works system.

DALLAS, TEX.—William Barclay Parsons, 60 Wall St., New York, has been selected as Consulting Engr. in connection with the plans for the building of a 5,000,000,000-gallon reservoir on White Rock Creek. Noted on Oct. 7.

COLLEGEPORT, TEX.—The Burden D. Hurd Land Co., acting for the Collegeport Canal Co., which is now being organized, have placed an order with the ERIE CITY IRON WORKS, of Erie, Pa., represented by H. A. Paine, of Houston, for a large pumping plant in the coast country. This plant will consist of five 36-in. centrifugal pumps, each having a capacity of 35,000 gallons per minute and each pump will be coupled to a compound condensing engine. The engines used in this plant are to be of the Poppet valve type and are manufactured under the Lentz (German) patent. The pumps will be built by the Morris Machine Works, who have furnished a majority of the large pumps in this section of the rice belt. The Collegeport Canal will furnish water for about 20,000 acres of land lying between the Colorado River and Palacios Bay, and which was formerly a part of the Pierce cattle ranch. Estimated cost, $100,000.

FORT GIBSON, OKLA.—Bids were opened on Oct. 12 for the construction of water-works from plans of M. A. Earl & Co., of Muskogee. Contract has been awarded to T. C. BROOKS & SONS, of Jackson, Mich., at $32,795.

PRYOR CREEK, OKLA.—The city has voted $90,000 of bonds for water-works and sewers.

WALTER, OKLA.—See item under Light and Power Plants.

DENVER, COLO.—The Fountain Valley Land & Irrigation Co. has sold bonds for about $500,000 for the purchase of additional sites and for reservoirs south of Denver and near Colorado Springs.

OURAY, COLO.—Bids were opened on Oct. 12 by the city for the construction of two concrete flumes, one 2,450 ft. in length for carrying waters of Portland Creek within city limits, the other 2,800 ft. in length for carrying waters of Cascade Creek. Contract has been awarded to THOMAS PHILLIPS & CO., of Denver, at $22,900. Charles A. Sperber is Mayor.

GREELEY, COLO.—The KENEFICK-QUIGLEY-RUSSELL CONSTRUCTION CO., of Chicago, Ill., has been awarded contract, it is reported, by the Denver Reservoir Irrigation Co., of Denver, for the enlargement of Milton Lake, 14 miles south of Greeley, to a capacity of 43,000 acre ft. of water, and the building of 82 miles of irrigation ditches at $805,000. This system will irrigate large tracts of land near Hudson, Platteville, Kersey and Hardin.

LAMAR, COLO.—The Two Buttes Irrigation & Reservoir Co., which has obtained 23,640 acres of land in Prowers and Baca Counties under the Carey Land Act, has let contracts for the construction of the dam and ditch work to DENNIS GIBBONS, of Denver, and the McDOWELL CONSTRUCTION CO., of Lamar, at an aggregate cost of $400,000. The dam will be built across Butte creek canon and will be 550 ft. wide at base, 1,150 ft. wide at crest line and 50 ft. thick at high water line. It will be faced with reinforced concrete 1 ft. thick. The dam will be backed with puddled earth rolled with steam rollers every 6 ins. and a concrete core 5 ft. thick will be built through the center to bedrock. A tunnel 400 ft. long and 12 × 8 ft., will be driven through solid rock at the north end for the outlet. The headgates and delivery will be set in solid rock. The reservoir will have a capacity of 40,000 acre-ft. The main canal will be 12 miles long, 18 ft. wide on the bottom and will carry 250 cu. sec.-ft. of water. There will be 120 miles of main laterals.

*CLIFTON, COLO.—Bids are asked by O. W. Jaynes, Secy. Bd. of Directors of the Palisade Irrigation District, Clifton, until 2 p. m., Nov. 15 for the construction of a concrete diverting dam across the Grand River at the point of intake of the power canal of the district in Mesa County. Details are given in advertisement of this issue.

SPOKANE, WASH.—Two bids were received on Oct. 14 by the Board of Public Works for the new concrete reservoir. The bids were: Murphy & Fife, $135,000; Huetter & Zirngibl, $129,776. With the former bid was another bid for $107,500, this providing for the construction of the reservoir according to plans and specifications submitted by the contractors. The lowest bid received on Oct. 12, when the first bids were opened, was $134,000, submitted by Huetter & Zirngibl.

WESTON, ORE.—The city proposes to construct a water-works system. Estimated cost, about $5,000. T. S. McKinney is Acting City Recdr.

CANBY, ORE.—The Canby Canal Co. will probably let contracts in 1910 for the proposed irrigation system to cover several thousand acres about 20 miles from Portland. Cost, $100,000.

SAN FRANCISCO, CAL.—Plans and specifications for the Twin Peaks reservoirs of the city's high pressure fire protection system were completed on Oct. 12 by Marsden Manson, City Engr. They call for a reservoir near the summit of the peaks, to hold 10,000,000 gallons, and for one at a level of 500 ft. lower to hold 1,000,000 gallons. Each is to be constructed of steel and concrete. The large reservoir, which will hold a fresh water supply equal to that of all the fire cisterns put together, or enough to keep supplied every hose and nozzle of the fire-department playing at full pressure for 13 hours, is designed to act as the reserve for conflagrations of the four alarm magnitude. The 1,000,000-gallon reservoir will supply the constant pressure for the service and the water for all ordinary fires. Each will be connected directly to the system of pipes and also with the other. The approximate cost of the larger basin will be $185,000. The smaller will cost about $100,000.

PARK CITY, UTAH.—C. P. Brooks, of Salt Lake City, has been selected to prepare plans for a 1,500,000-gallon reservoir. Estimated cost, about $50,000.

WESTON, ONT.—Bids will be received until Nov. 1 for laying 23,600 lin. ft. of water mains, steel water tower and foundation, c.-i. pipe and special castings, fire hydrants, gate valves, valve boxes, etc., sedimentation basin. Willis Chipman is Consulting Engr., 103 Bay St., Toronto.

TORONTO, ONT.—Bids will be received by Joseph Oliver, Chn. Bd. of Control, until noon, Nov. 2, for the construction of a gate-house to be built over the south tunnel shaft at the island.

Contract was awarded on Oct. 21 by the Board of Control to the NATIONAL IRON WORKS CO., of Toronto, for 1,080 lengths of c.-i. pipe at $27.45 per length.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Bids were opened on Oct. 12 by Guy C. Emerson, Supt. Sts., for constructing a concrete surface drain and appurtenances in Brookline Ave., Roxbury. Contract has been awarded to ANDREW M. CUSACK, 95 Milk St., at $8,267.

PROVIDENCE, R. I.—Bids will be received until 2.15 p. m., Nov. 9, by Henry Fletcher, Chn. Bd. Contract and Supply, for furnishing and installing complete at the city's sewage pumping station, Ernest St., near Field's Point, centrifugal pumps, with auxiliaries accompanying same such as condenser and pumps and feed-water pumps now connected with the vertical, triple-expansion fly-wheel engines at the station.

*EAST PROVIDENCE, R. I.—Bids are asked until 7.30 p. m., Nov. 16, by the Board of Sewer Commissioners, Watchemoket Fire Dist., East Providence, for constructing various sewers. Plans and specifications are on file at office of Town Clerk and also at office of the engineers, the City-Wastes Disposal Co., 156 Fifth Ave., New York.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Nov. 8, by John F. Ahearn, Pres. Boro. Manhattan, for the reconstruction of outlet sewer and appurtenances into Harlem River, between 134th and 135th Sts. and in Park Ave., between 134th and 135th Sts.

Bids were opened on Oct. 11 by John F. Ahearn, Pres. Boro. Manhattan, for furnishing materials and constructing a system of temporary sewers and appurtenances through an easement at the foot of Maple Ave. and other streets, Sewer District 5A. Contract, it is reported, has been awarded to the LITCHFIELD CONSTRUCTION CO., at $80,402.

NEW YORK, N. Y.—Bids were received as follows on Oct. 19 by John F. Ahearn, Pres. Boro. Manhattan, for furnishing labor and materials required for building canal sewer and appurtenances under pier at foot of 26th St., East River: John D. Walsh, $6,333; H. G. Roef, 39 Cortlandt St., $6,412; Phoenix Construction Co., 21 Park Row, $9,679; Joseph Moore, $6,835; Atlanta Contracting Co., $9,396; H. R. Asserson, $8,093.

Bids were also received as follows for furnishing all the labor and materials required for alterations and improvements to sewer and appurtenances in 119th St., between Third and Park Aves.: Haggerty Contracting Co., $16,809; Smith & Fitzgerald, $10,245; Joseph Moore, $9,587; Atlanta Contracting Co., $11,980; Galvin & Cantwell, $9,807 Grannis & Cook, $9,263; Walter J. Ford, $14,593; Dunbar Contracting Co., $12,071; W. J. Brennan, $13,489; William Helter, $11,031; Melrose Construction Co., $11,665; Alamo Contracting Co., $11,220.

BROOKLYN, N. Y.—Bids are asked by Bird S. Coler, Boro. Pres., until 11 a. m., Nov. 10, for constructing sewers and sewer basins in various streets.

SYRACUSE, N. Y.—Contract for constructing the West St. intercepting sewer, bids opened on Oct. 14, has been awarded by the Intercepting Sewer Board to JOHN YOUNG, 2706 Lodi St., at $8,053. Howard J. Hamlin is Secy.

BATAVIA, N. Y.—The Sewer Commissioners on Oct. 14 awarded contract for the construction of the proposed sewer system to THOMAS M. SWEENY CO., of Pittsburg, Pa., at $252,603. Hering & Fuller, 170 Broadway, New York, are Engrs.

NIAGARA FALLS, N. Y.—The city proposes to construct about 2,600 ft. of from 10 to 15-in. tile sewer, and 1,200 ft. rock tunnels with shafts, etc. Estimated cost, about $45,000. R. A. McClanathan is City Engr.

*BORDENTOWN, N. J.—Bids were opened on Sept. 23 by the Board of Sewer Commissioners, Stanley Wampole, Secy., for the construction of a sewer system and sewage disposal plant. Contract has been awarded to the PITT CONSTRUCTION CO., Fulton Bldg., Pittsburg, Pa. The work comprises about nine miles of 8 to 15-in. sewers, pumping station, contact and filter beds, sedimentation tanks, two c.-i. siphons and aqueduct. W. W. Young is Consulting Engr., 220 Broadway, New York. E. G. Kastenhuber, Jr., is Resident Engr., Bordentown.

RAHWAY, N. J.—Contract for constructing two pipe sewers in East Milton Ave., has been awarded to LOUIS JACQUES, of Elizabeth, at $6,095. Charles H. Lambert is City Clk.

*ROSELLE PARK, N. J.—Bids are asked until 8 p. m., Nov. 19, by the Mayor and Borough Council, for construction of extensions to sewer system in this borough. For quantities, etc., see advertisement in this issue. J. Wallace Higgins, Boro. Engr., Roselle Park, N. J., and 347 Fifth Ave., New York.

*SUMMIT, N. J.—Bids are asked until 8 p. m., Nov. 3, by the Common Council for the construction of 4,874 lin. ft. of vitrified pipe sewer, 8 and 10-in., in Pine Grove Ave., Blackburn Road, Blackburn Pl. and Prospect St., and manholes, excavations, etc. necessary to same; also the filling of Pine Grove Ave., near county bridge, and the change in the retaining walls at both ends of county bridge; and for the construction of 1,940 lin. ft. of 8 and 10-in. vitrified pipe sewer in Hill Crest Ave. and Summit Ave. and manholes, excavating, etc., necessary to same. John S. Stiger is City Engr.

McKEESPORT, PA.—Bids are asked until 4 p. m., Nov. 4, by C. E. Soles, City Controller, for a complete design of a sewer system and a sewage disposal plant with estimated cost in detail of same.

GREENVILLE, GA.—The city has voted bonds for sewer construction.

NASHVILLE, TENN.—The citizens on Oct. 14 voted to issue $500,000 of bonds for the construction of trunk sewers. Bids for the bonds will be received about Jan. 1 and contracts for construction work will be let in the spring.

*LOUISVILLE, KY.—Contracts for the construction of the Northwestern Sewer in four sections, bids opened on Sept. 24 by the Commissioners of Sewerage, have been awarded as follows: Contract 53, Sect. B, and Contract 55, Sect. C, to JAMES DUFF CONSTRUCTION CO., of Cleveland, Ohio, at $144,538 and $79,505, respectively; Contract 54, Sect. B2, to C. F. FITCH & CO., Louisville, at $80,065; Contract 48, Sect. D, to E. A. BARKER & SON, of Louisville, at $51,485. List of bidders noted on Oct. 7. J. B. F. Breed is Ch. Engr.

CLEVELAND, OHIO.—Bids will be received by the Secretary of the Board of Public Service, until noon, Nov. 3, for the construction of sewers in several streets.

INDIANAPOLIS, IND.—The Board of Public Works, J. T. Elliott, Chn., has ordered plans for the construction of the Parkway sewer from 18th to 30th Sts. Estimated cost, $40,000.

MARION, IND.—Bids will be received by the Board of Public Works until Oct. 29, for the improvement of a sanitary sewer in the alley south of Sixth St., commencing at the west line of No. 38 in Dick Thomas' second addition to the city of Marion, thence extending west to the east line of Grove St.

GRAND RAPIDS, MICH.—Bids for lowering the present sewer in West Leonard St. and constructing a new sewer in the same street were received by the Board of Public Works on Oct. 14 as follows: Peter De Witt, $10,333; Vander Weele Bros., $11,445.

SPRINGFIELD, ILL.—Contract will be let about Nov. 1 for the construction of a sewer in New St., about 1,600 lin. ft. of 18-in. pipe.

GREEN BAY, WIS.—Bids will be received by the Committee on Sewers and Plumbing until 10 a. m., Nov. 1, for furnishing all material and doing all work necessary and required in the construction of several 12-in. sewers.

TRAER, IOWA.—Contract will probably be let the latter part of November for a portion of the sewer system. Estimated cost, about $15,000.

SHENANDOAH, IOWA.—Bids will be received until Oct. 29 by C. M. Conway, City Clk., for constructing 8 and 10-in. vitrified pipe sewers in portions of Walnut St., Lowell and Sixth Aves., and four other streets.

BURLINGTON, IOWA.—Contract for constructing a continuation of the Hawkeye sewer has been awarded to the BURLINGTON CONSTRUCTION CO., of Burlington, at about $18,000. Bids were opened on Oct. 4. John F. Winters is City Engr.

CEDAR RAPIDS, IOWA.—DEARBORN & JACKSON have been awarded contract for constructing a sanitary sewer in Young's Hill District by the city at $39,574. Bids were opened on Oct. 13.

JOPLIN, MO.—The city has voted $50,000 of sewer bonds.

ALLIANCE, NEB.—All bids opened on Oct. 12 by the city for proposed sewage disposal plant have been rejected as excessive. The bids follow: Intermountain Bridge & Construction Co., Tecumseh, $9,281, and John Pederson, Alliance, $9,362. William Grant, of Lincoln, is Engr.; F. W. Irish is City Clk.

PINE BLUFF, ARK.—The Commissioners of Sewer District No. 10 on Oct. 18 awarded contract for the construction of a sewer system in the southwestern suburbs of the city to the PINE BLUFF PLUMBING CO. at $6,718.

HOUSTON, TEX.—Bids will be received until noon, Nov. 8, by D. C. Smith, City Controller, for constructing sanitary sewers in the Fifth Ward, requiring about 21,443 lin. ft. of from 30 to 10-in. vitrified pipe, necessary manholes, flush tanks, T's, etc. F. L. Dormant is City Engr.

WALTER, OKLA.—See item under Light and Power Plants.

PRYOR CREEK, OKLA.—See item under Water Supply—Irrigation.

MOUNT VERNON, WASH.—Contract for constructing sewer system, bids opened on Oct. 13, has been awarded to STEVENS & MACNEIL, of Mount Vernon, at $14,464. J. D. Bowen is City Clk.

SEATTLE, WASH.—C. W. CROCKETT & CO. have secured contract for constructing sewers in Frankel Ave. at $4,458. R. H. Thomson is City Engr.

SEATTLE, WASH.—Bids were received as follows on Oct. 18 by the city for the construction of sewers in Connecticut St. and other streets: SPARGER CONCRETE CO., Colman Block, Seattle, $124,151 (awarded contract); Grant Smith & Co., Seattle, $129,-046; C. W. Coit & Co., Seattle, $123,531; Walker & Plachy, Seattle, $130,547; E. J. Rounds & Co., Globe Block, Seattle, $138,-938. R. H. Thomson is City Engr.

FITCHBURG, CAL.—The citizens on Oct. 16 voted in favor of issuing $75,000 of bonds for the construction of a sanitary sewer system.

SALT LAKE CITY, UTAH.—Bids will be received until Nov. 5 by the Board of Public Works, H. G. McMillan, Chn., for constructing sewer extensions Nos. 220, 225 and 228, respectively. Louis C. Kelsey is City Engr.

CALDWELL, IDAHO.—The JAMES KENNEDY CONSTRUCTION CO., of Salt Lake City, Utah, has secured contract for constructing sewers here, at about $45,366. Richardson & Williams, of Caldwell, are Engrs.

BRIDGEBURG, ONT.—The citizens on Oct. 11 voted to issue $30,000 of bonds for the construction of sewers and a sewage disposal plant and for acquiring a site for a public park.

MAPLE CREEK, SASK.—A. P. BURNS, of Medicine Hat, Alta., has been awarded contract for constructing about five miles of sewers here. Mr. C. M. Arnold, of Lethbridge, is Consulting Engr.

GARBAGE DISPOSAL.

FALL RIVER, MASS.—The Eastern Sanitary Products Co. has been incorporated here. Frank Riley, of Fall River, is Pres.

BROOKLYN, N. Y.—Contracts have been awarded as follows by William H. Edwards, Comr. Street Cleaning, for the removal of snow and ice: To C. DE MARCO at 13¼ cts. per cu. yd.; to NEWMAN & HOLMES, under Form No. 2, at 34.95 cts.

NEW YORK, N. Y.—Contracts have been awarded by William H. Edwards, Comr. Street Cleaning for the removal of snow and ice. Boroughs of Manhattan and Bronx: To WILLIAM BRADLEY, 1 Madison Ave, New York, at 19 cts. per cu. yd; to same under Form No. 2 at 57 cts. per cu. yd.

Contract for furnishing all labor and materials required for furnishing and installing a rubbish conveyor at the West 47th St., Manhattan, incinerating plant, and also for installing a baling press has been awarded to JOHN FISH at $3,490.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—JAMES DOHERTY has secured the contract to regulate and pave a portion of Washington St. at $34,328. Other bidders were F. H. Cowin, $35,342, and Jones & Meehan, $39,871.

WATERBURY, CONN.—The contract to pave approximately 6,000 sq. yds. with granite blocks, on Freight St. is reported awarded to FIELD, BARKER & UNDERWOOD, Arcade Bldg., Philadelphia, Pa., at $24,655. The Connecticut Hassam Paving Co. bid $25,472.

YONKERS, N. Y.—Bids are asked by the Board of Contract and Supply until 8 p. m., Nov. 1, for regulating, paving, etc., Vernon Ave., from Yonkers to Winifred Aves. S. L. Cooper is City Engr.

*AUBURN, N. Y.—Bids are asked until 8 p. m., Nov. 16, by C. A. Koenig, Mayor, for building subways and constructing an asphalt pavement in Hoopes Ave. For details see advertisement in this issue.

MINEOLA (L. I.), N. Y.—The Nassau County Supervisors have approved plans and specifications submitted by Wm. H. Seaman for improvement by macadamizing a portion of Marcus Ave. The cost of the improvement is to be about $46,000, to be met jointly by the County and the Town of North Hempstead. William E. Luyster is Clerk of Bd.

*FORT H. G. WRIGHT (New London, Conn., post-office), N. Y.—We are officially advised that bids were received as follows by the Constructing Quartermaster, U. S. A., New London, on Oct. 21, for constructing approximately 1,700 lin. ft. of 16-ft. macadam road and 2,000 lin. ft. of 5-ft. cement sidewalk at Fort H. G. Wright, N. Y.: Joseph Benvennuti, New London, $8,570; Bryan F. Mahan, New London, $8,322; Michael O'Connell, New London, $9,850; Dominick Bonacci, 672 Degraw St., Brooklyn, N. Y., $9,750.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Nov. 3, for regulating, grading and paving on various streets in Brooklyn.

The following bids were received by Bird S. Coler, Pres. Boro. of Brooklyn, on Oct. 20, for regulating, grading and paving or repairing with asphalt pavement on a concrete foundation the roadway of Clarkson Ave., from Flatbush Ave. to Aetany Ave., Brooklyn: Barber Asphalt Paving Co., 50 Church St., New York, $42,457; Cranford Co., 52 Ninth St., Brooklyn, $33,950; Uvalde Asphalt Paving Co., 1 Broadway, New York, $37,314; Brooklyn Alcatraz Asphalt Paving Co., 407 Hamburg Ave., Brooklyn, $37,307. Prospect Park West, from Plaza St. to Ninth St., Brooklyn: Cranford Co., 52 Ninth St., Brooklyn, $20,930; Barber Asphalt Paving Co., $22,481; Brooklyn Alcatraz Asphalt Paving Co., $30,826; Uvalde Asphalt Paving Co., $21,432. East Third St., from Vanderbilt St. to Fort Hamilton Ave., Brooklyn: Brooklyn Alcatraz Asphalt Co., $6,723; Cranford Co., $6,746; Barber Asphalt Paving Co., $7,909; Uvalde Asphalt Paving Co., $6,942. East Fifth St., from Ave. C to Church Ave., Brooklyn: Uvalde Asphalt Paving Co., $3,-295; Cranford Co., $5,366; Barber Asphalt Paving Co., $6,309; Uvalde Asphalt Paving Co., $5,470.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Nov. 10, for regulating, grading and paving on various streets in Brooklyn.

TRENTON, N. J.—The Filbert Paving & Construction Co., Pennsylvania Bldg., Philadelphia, Pa., submitted the lowest bid on Oct. 12 for paving West State St. at $9,405 and Greenwood Ave. at $10,457.

NEW BRUNSWICK, N. J.—Bids will be received at Common Council Chambers, 390 George St., in the City of New Brunswick, until 8 p. m., Nov. 4, for regulating, grading and curbing Handy St., from the south line of Throop Ave. to the north line of Nichol Ave. John T. Kemp is Street Comr.

*FREEHOLD, N. J.—We are officially advised that bids were received by the Board of Chosen Freeholders of Monmouth County, at the Court House, Freehold, on Oct. 13, for constructing a gravel road in the Townships of Ocean and Eatontown, 2.61 miles. William B. Conoker is director; E. E. Throckmorton is Engr., Broadway, Long Branch, N. J. The following bids were submitted: C. H. Lawrence, Spring Lake, N. J., $21,790; R. Hafman, Farmingdale, N. J., $24,765; Hillpot & Co., Red Bank, N. J., $21,378; J. L. BUTCHER & SON, Farmingdale, N. J., $21,000 (awarded contract); J. F. Shanly & Co., Newark, N. J., $22,818.

HAMBURG, PA.—Bids will be received until Nov. 1 by Frank Tobias, Boro. Secy., for brick paving, concrete curb, concrete sidewalk and rubble masonry retaining wall.

UNIONTOWN, PA.—Bids will be received by Louis Dilliner, Secy, of Council of Point Marion Boro., until 6 p. m., Nov. 3, for paving and curbing and furnishing all materials necessary thereto on Jane St., from Penn St. to Broadway, and on Broadway, from the B. & O. R. R. to Main St. in said borough.

SALTSBURG, PA.—Bids will be received until noon, Nov. 4 by the President of the Borough Council, for grading, curbing and paving a portion of Point St.

NEW BRIGHTON, PA.—Bids are asked by the Town Council until 7 p. m., Nov. 1 for the paving, etc., with vitrified bricks, Eighth Ave., from 13th to 14th Sts., in the following approximate quantities: Paving, 900 sq. yds.; grading, 500 cu. yds.; concrete curb and gutter, 800 ft.; sewer latterals, 200 ft. Harry T. Barker is City Engr.

*DENTON, MD.—The contract for macadamizing 1.10 miles road including a pivot drawbridge and a 70-ft. steel span bridge, with necessary piers, etc., has been awarded to FISHER & CORZZA, of Baltimore, at $31,278, subject to the approval of the Maryland Geological Survey. I. L. Dukes is Clerk of County Comrs.

BALTIMORE, MD.—The State Roads Commission has authorized the survey of the Liberty road within the city limits and also one mile in Baltimore County. As soon as the survey is completed specifications for improving the thoroughfare will be prepared.

WASHINGTON, D. C.—The contract for macadamizing a portion of Thirteenth St., bids opened Oct. 15, has been awarded to the CRANFORD PAVING CO., 2620 E St., N. W., Washington, for $11,800. C. B. Hunt is Engr. of Highways.

HUNTINGTON, W. VA.—Bids are asked by the City Commissioners until 2 p. m., Nov. 8, for the grading, draining, curbing and paving with vitrified brick 16th St., from Second to Third Aves. John Coon is Comr. of Streets and Sewers.

SARASOTA, FLA.—The contract for grading and macadamizing certain streets has been awarded to BRANDON & HOCKNEY, of Sarasota. Cost, about $15,000. Benjamin Thompson is Engr., Tampa.; C. B. Wilson is Bond Trustee.

GADSDEN, ALA.—The GRAVES-MATTHEWS PAVING CO., of Birmingham, secured the contract on Oct. 4 for 24,000 sq. yds. of vitrified brick pavement at $52,800.

VICKSBURG, MISS.—C. R. Twiss, City Engr., has completed his estimate of lin. ft., represented on the street paving petitions by names of property owners asking for paving on Drummond, Walnut and First North Sts. On Walnut St., which is to be paved its entire length, Mr. Twiss finds that there will be 12,817 sq. yds. of paving required. On First North St., between Clay and Grove Sts., there is to be paved 1,894 sq. yds., and a majority of 48 ft. has been secured by this petition. On Drummond St. for 6,624 sq. yds. of paving there is a majority in the petition of 181 lin. ft. The Veto St. petition will be completed by the City Engineer in a few days. It will require about 60 days before the Council can go through the required legal process, to let out these paving contracts. Total estimate, 21,335 sq. yds.

SHREVEPORT, LA.—An ordinance providing for an election to be held Nov. 21 to authorize the issuance of $250,000 in bonds for street improvements, mostly paving, was passed by the Shreveport City Council at its meeting on Oct. 19. Plans have been developed by the City Engineer so that the work will be advertised for as soon as the result of the election is known. George R. Wilson is City Engr.; S. A. Dickson, Mayor, Shreveport, La.

ST. CLAIRSVILLE, OHIO.—Bids will be received at the office of the Commissioners of Belmont County until noon, Nov. 3, for grading and macadamizing (tar macadam) 1.96 miles of road in Flushing Township. Estimated cost, $16,870. Joseph C. Wonders is State Highway Comr., Columbus, Ohio.

Bids will be received at same time and place for 1.24 miles of tar macadam road in Union Township. Estimated cost, $10,538.

WARREN, OHIO.—Bids will be received at the office of the Commissioners of Trumbull County, until noon, Nov. 5, for grading and macdamizing and paving with brick 1.19 miles of road in Kinsman Township. Estimated cost of construction, $14,102. (Tar macadam or brick and water-bound macadam.) Joseph C. Wonders is State Highway Comr., Columbus, Ohio.

STEUBENVILLE, OHIO.—Bids will be received at the office of the Commissioners of Jefferson County until noon, Nov. 4, for grading and macadamizing 1.33 miles of road (water-bound macadam) in Cross Creek Township. Estimated cost, $8,832. Joseph C. Wonders is State Highway Comr., Columbus, Ohio.

COLUMBUS, OHIO.—Bids will be received until Nov. 3 by the Board of Public Service for improving Carpenter, Fourth, Seventh and several other streets. Edward W. Hirsch is Secy.

YOUNGSTOWN, OHIO.—Gartland Bros. submitted the lowest bid on Oct. 8 for paving with brick on Truesdale Ave., at $13,107.

ASHTABULA, OHIO.—Bids were received by the Board of Public Service of the City of Ashtabula Oct. 21, for furnishing the necessary labor and materials for the improvement of the Lake St. Subway, by grading, draining, curbing, constructing foundations and paving with dressed Medina block according to the plans and specifications on file in said office. The work includes approximately: 4,792 sq. yds. of dressed Medina block, 2,024 sq. yds. of concrete foundation, 1,800 lin. ft. of 6-in. × 20-in. cement curb, 1,142 lin. ft. of 6-in. × 26-in. cement curb, 136 lin. ft. of 6-in. × 20-in. circular curb, 2,000 lin. ft. of 4-in. underdrain, 162 lin. ft. of 12-in. storm sewer, 8 catch basins, 4 track inlets, 2 manholes, 16.-862 sq. ft. of 4-in. cement sidewalk, and all other labor, material and appurtenances. Also for the improvement of Ontario St., from Ohio Ave. to Lake St., by grading and improving said street, according to the plans and specifications on file in said office. The work includes approximately 1,205 cu. yds. of excavation, 0.83 of an acre of clearing and grubbing, and all other labor, material and appurtenances. Following are the bids received: W. F. Clifford, Ashtabula, $23,641; R. P. Burnett, Cleveland, $21,698; T. P. Fitzgerald, Ashtabula, $21,-218. A. J. Richardson is Clerk; L. A. Anisden is City Engr.

TOLEDO, OHIO.—Bids will be received until Nov. 9 by the Board Public Service for paving Knapp St. and Broadway with either sheet asphalt, creosoted wood blocks, asphalt blocks, etc. Reynold Volt is Secy.

On Oct. 20 the Board of Public Service awarded GARRIGAN BROS. the contract for paving Bassett St., from Summit to Ontario Sts., for $5,194, and WATTERS & TANSEY secured the contract for paving a portion of New York Ave. at $10,393. The contract for paving Foraker Ave., from Broadway to Walbridge Park, was laid over, two parties of petitioners asking for different kinds of paving.

Contracts for paving Pinewood Ave., from City Park to Ewing St., have been let to JOHN McMAHON for $6,868; for paving Navarre St., Oak to Miami Sts., to WATTERS & TANSEY for $9,358; for paving Moore St., Cherry to Lagrange Sts., to HENRY SHEEHAN at $7,511.

CINCINNATI, OHIO.—Bids will be received until noon, Nov. 12, by the Board County Commissioners at Cincinnati for improving the Cloves and Miamitown Roads, Whitewater Township, as per Specification No. 975. Fred Dreihs is Clerk.

The following bids were received by the Board of Public Service on Oct. 5 for paving with wood block on Eastern Ave. Engineer's estimate, $90,832. Prices given are per sq. yd.: Alfred Scully, $1.90; William Scully, $1.69; Kirchner Construction Co., $2.60; Russell & Jennison, $2.62; A. J. Henkel & Bro., $2.65; M. Sullivan & Sons, $2.25; J. B. Washburn, $2 and $2.15; J. M. Quill, $2.40 and $1.76, and the U. S. Wood Preserving Co., $1.82.

Bids will be received by the Board and Director of Public Service until Nov. 3, for improving Herschell Ave., from Linwood Ave. to the Corporation line, by grading, setting granite curbs, paving the roadway with brick and constructing the necessary drains and inlets. John J. Wenner is Clerk.

MOUNT VERNON, IND.—The E. & W. CONSTRUCTION CO., of Evansville, Ind., has secured the contract to construct roads in Posey County at $46,119.

WILLIAMSPORT, IND.—The contract to construct a gravel road in Warren County has been awarded to CLINT FULLER, of Marshfield, at $8,400.

KENTLAND, IND.—Bids will be received Nov. 1 by E. R. Bringham, County Audr., for constructing two macadam roads in Grant Township.

PAOLI, IND.—Bids are asked by the Commissioners of Orange County until 2 p. m., Nov. 2, for constructing two roads in Greenfield Township. Alvin B. Hamm is County Audr.

QUINCY, ILL.—Bids were received on Oct. 11 at the office of the City Engineer for paving Tenth St. with brick blocks, asphalt fill, macadam base and sandstone curb, and the contract has been awarded to HENRY REES, of Quincy, at $19,916. John A. Steinbach is Mayor.

SPRINGFIELD, ILL.—A contract will be let about Nov. 1 for paving New St. about 5,000 sq. yds., with brick, asphalt fill, and 3,660 lin. ft. cement curb and gutter.

MELROSE PARK, ILL.—SMITH & BROWN have secured the contract for paving Lake St., with metropolitan brick, at $36,418.

KAUKAUNA, WIS.—Bids are asked until 4 p. m., Nov. 2, by L. C. Wolf, City Clerk, for constructing sidewalks on various streets in this city.

WATERLOO, IOWA.—The BRYANT-FORD, McLAUGHLIN CO., of Waterloo, has secured the contract to pave portions of Sumner, Beach and West Fourth Sts. at $1.90 per sq. yd. on 5-in. concrete base and $1.84 on 4-in. base.

OLATHE, KAN.—Bids are asked until Nov. 10 by Jesper T. Kincaid, County Clk., for constructing the Kansas City and Aubrey wagon roads.

ST. LOUIS, MO.—The contract for paving Belle St., from 16th St. to Madison Ave., was awarded on Oct. 13 to CURDIE & MAUPIN at $1.17½ a sq. yd.

CHANDLER, OKLA.—Bids will be received by the County Clerk until Nov. 16 for furnishing material and constructing a hard surface highway in Road District No. 1, Lincoln County, a distance of 30.51 miles.

VANCOUVER BARRACKS, (Vancouver post-office), WASH.—Bids are asked until 11 a. m., Nov. 10, for the construction of a gravel or crushed rock roadway around the Q. M.'s stable at Vancouver Barracks, Wash.

TACOMA, WASH.—On Oct. 14 the following bids were received for paving with asphalt Ainsworth Ave. and other streets in District No. 430: Barber Asphalt Paving Co., Provident Bldg., Tacoma, $59,400; Warter Bros., $60,250; George Milton Savage, $61,383; Wright & Sweeney, $69,650; M. J. Hickey, $69,330. The estimate of Frank L. Davis, City Engr., was $76,729. District No. 430 includes Ainsworth Ave., from Sixth Ave. to 16th St., Sprague St., from North Seventh to South I St., North Seventh, from Ainsworth Ave. to Sprague St., South Eighth St., from Sprague to L Sts., L St., from South Eighth to Seventh Sts., and South Seventh St., from L to K Sts.

FORT WORDEN (Port Townsend post-office), WASH.—We are officially advised that bids were received by Capt. E. C. Long, Constr. Q. M., Arcade Annex, Seattle, Wash., on Oct. 4, for concrete walks, carriage blocks and drains at Fort Worden. The contract has been let to JOHN J. STOCKAND, of Port Townsend.

PORTLAND, ORE.—The Portland "Oregonian" states that extensive hard-surface pavements are to be undertaken in Kenilworth and Brooklyn. Gladstone Ave., which was graded and improved with sidewalks last year, is to be paved between East 26th and Kenilforth Sts. East 34th St. is to be improved between Francis Ave. and Holgate St., which is along the east side of the newly acquired park tract. East 33d and East 32d Sts. also will be paved with hard-surface improvement. A petition soon will be circulated for a hard-surface improvement on Milwaukie St., between Division and Holgate Sts., a distance of about one mile. The property owners have built concrete sidewalks on Milwaukie St. and would only be called on to pay for the pavement. Hassam pavement will be asked for on all these streets. Hard-surface pavement is to be laid on Division St., between East Twelfth St. and the city limits. These improvements will represent an expenditure of between $300,000 and $400,000. Douglas W. Taylor is City Engr.

CORONA, CAL.—OSCAR FORD, of Riverside, Cal., has secured the contract for street grading, at $10,424.

SACRAMENTO, CAL.—The Board of Supervisors on Oct. 6 awarded the contract to pave 20 miles of the Lower Sacramento Road with asphalt macadam to the CITY STREET IMPROVEMENT CO., Merchants' Exchange, San Francisco, at $164,637. Other bids received were: Hanrahan & Dowling, San Francisco, $170,984; Clark & Henery Construction Co., $182,622; Ransome, Crummey Co., San Francisco, $171,352; Worswick Street Paving Co., Fresno, $183,219; Barber Asphalt Paving Co., San Francisco, $177,-749.

SAN JOSE, CAL.—Bids are asked by Henry A. Pastar, Clerk Bd. of Supervs. of Santa Clara County, until 11 a. m., Nov. 1, for repairing and constructing the Monterey Road between a point two miles south of Coyote Station and a point two miles south of the City of Gilroy in Road District No. 1 in Santa Clara County.

OAKLAND, CAL.—Bids are asked by John P. Cook, Clerk Bd. of Supervs., until 10 a. m., Nov. 1, for macadamizing a strip 12 ft. wide on Bacer Ave., from the southwesterly boundary line of Foothill Park to East 14th St., Brooklyn Road District.

LOS ANGELES, CAL.—The Board of Supervisors has awarded the contract to improve a portion of Washington St., Vermont Ave. and Sunset Boulevard, to RIFE & CAVE, at $15,730.

Bids for construction of a section of Banning-Idyllwild road have been submitted as follows: Johnson Shea Co., $24,000; James Peacher, $23,750. It was voted to reject these bids and readvertise as the bids were in excess of appropriation for the work.

SALT LAKE CITY, UTAH.—Bids will be received until 8 p. m., Nov. 5 by the Board Public Works for grading, curbing and paving Third St. in Paving Extension No. 61. Louis C. Kelsey is City Engr.; H. G. McMillan is Chn. Bd. of Pub. Works.

CALDWELL, IDAHO.—Bids will be received until Oct. 29 by the City Clerk for laying about 30 blocks of bitulithic pavement. F. H. Richardson is Engr., Caldwell.

TWIN FALLS, IDAHO.—The City Council has let the paving contract to the WARREN CONSTRUCTION CO., Lumber Exchange, Portland, Ore., at $34,921 for the city's portion of paving, and $102,836 for paving for the abutting property. In both cases the cost was less than the estimated amount. Work will commence by the warren Construction Co. soon.

MANUFACTURING PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

WATERTOWN, MASS.—The Hood Rubber Co., East Watertown, Mass., has awarded a contract to the ABERTHAW CONSTRUCTION CO., 8 Beason St., Boston, for the second reinforced-concrete building of the fireproof group which it is building in their recently acquired lot on the other side of the Boston & Maine R. R. tracks from their present plant. The buildings of this group are of reinforced concrete, fireproof in all structural details.

WINSTED, CONN.—The Winsted Hosiery Co. is having plans drawn for an addition to its plant. A 4-story brick structure, 32 × 90 ft., will be erected.

BRIDGEPORT, CONN.—We are officially advised that the following contracts have been let for the construction of the Pequonnock Foundry: Steel, BERLIN CONSTRUCTION CO.; concrete, J. J. ANDERSON & CO. The buildings will be one and two stories high, 75 × 120 ft., fireproof, and will cost $10,000; equipment, $4,500.

ROCHESTER, N. Y.—The A. J. Bolton Co., 161 North Water St., has let contracts for erection of factory building, 146 × 207 ft., brick, to be erected on Whitney St., to GEORGE KIRCHER, 444 Alphonse St., for masonry, and ANTHONY LINK, 654 South Ave., for carpentry. Cost, $75,000. Joseph H. Oberlies, Granite Bldg., Rochester, is Arch.

BUFFALO, N. Y.—Lockwood, Green & Co., 93 Federal St., Boston, Mass., are preparing plans for an additional factory and warehouse building of reinforced concrete, 60 × 300 ft., four stories high, to be erected by the Pierce-Arrow Motor Car Co., at its plant, Elmwood Ave. and New York Central R. R. Belt Line. George K. Birge is Pres.; Henry May, Treas. and Mgr. Noted on Oct. 7.

The STEEL STORAGE & ELEVATOR CONSTRUCTION CO., 730 Main St., Buffalo, N. Y., has been awarded the contract for the construction of a 1,000,000-bushel grain elevator for the Spencer Kellogg Co., at Michigan and Gannon Sts., Buffalo, the cost of which, with equipment, is estimated at $275,000. The company is in the market for a complete grain conveying outfit and elevating machinery and electrical power equipment, it is stated.

The John R. Keim Co. will enlarge its plant at Kensington Ave. and Erie R. R. by erection of a steel frame quadrangular building, 20 × 68, 26 × 58 and 22 × 58 ft.

The Buffalo Distilled Water Ice Co. will build a 2-story brick addition to its ice manufacturing plant at Broadway and North Central Ave. to cost about $10,000.

The Wickwire Steel Co. will construct an additional blast furnace and power-house adjoining its present furnace plant at Wickwire, N. Y., on Niagara River, north of Buffalo. T. H. Wickwire, Jr., is Mgr., Wickwire, N. Y.

NIAGARA FALLS, N. Y.—The Shredded Wheat Co. has awarded contract to the GRAIN STORAGE CONSTRUCTION CO. for construction of a $100,000-bushel grain elevator. It will be of steel plate bin construction, with nine sections, 45 ft. in diameter, 80 ft. high, with machine and conveyor building, 16 × 29 ft., 110 ft. high.

SONYEA, N. Y.—Bids will be received by Percy L. Lang, Pres. Bd. of Mgrs. of the Craig Colony of Epileptics at Sonyea, N. Y., until 2 p. m., Nov. 9, for addition to laundry, including construction, heating, plumbing and electric work; also for construction of new retaining wall. F. B. Ware is State Arch., Albany.

PHILADELPHIA, PA.—Barber, Hartman & Co., Commonwealth Bldg., have purchased for Herman Schloss the six dwellings, 1530-40 North Randolph St., occupying a lot with a frontage of 80 ft. on Randolph St. and a depth of 75 ft. The purchaser is a member of the Roxford Knitting Co., whose factory at Randolph and Jefferson Sts., adjoins the properties purchased. The company will build on the ground just acquired an addition to the present plant. When the addition is completed, the mills of the Roxford Knitting Co. will occupy a lot with a front of 100 ft. in Jefferson St. and a depth of 280 ft. on Randolph St. The WILLIAM STEELE & SONS CO., 1600 Arch St., have the contract for the new building.

The P. HALBACH CONTRACTING CO. will build a 3-story addition, 48 × 72 ft., to the factory of H. C. Aberle & Co., on Third St., north of Cumberland, to cost $12,000.

The WILLIAM STEELE & SONS CO., 1600 Arch St., has the contract for a 6-story addition to the plant of the England & Walton Co., Inc., to be built in the rear of the building now approaching completion, on Vine St., west of Third St., at $80,000.

PITTSBURG, PA.—A brick and stone addition, three stories high, is to be added to the big bakery of the Baur Bros. Co., on Penn Ave., near Putnam St., East Liberty. The plans for the improvement, which will cost about $40,000, are being prepared by C. M. Bartberger, Westinghouse Bldg., Pittsburg. The Baur bakery at present is a 2-story brick and stone structure, about 100 × 160 ft., and was erected three years ago.

FOREST CITY, PA.—GEORGE A. GLENN CO., 930 North Eighth St., Philadelphia, Pa., have been awarded the contract for the erection of a silk mill at Forest City near Carbondale, Pa., for the Klots Silk Co., of Scranton, Pa., which is estimated to cost $72,000.

WILMINGTON, DEL.—The Naugatuck Malleable Iron Co., of Naugatuck, Conn., has decided not to make the proposed enlargement of its plant at Union City, in the northern part of that borough, but instead it will build an additional plant at Wilmington, Del.

BALTIMORE, MD.—The Gandy Belting Co. will increase its plant at Pratt and Fremont Sts. by the erection of a 4-story addition, 70 × 100 ft.

FORT WASHINGTON, MD.—See item under Buildings.

SUFFOLK, VA.—Articles of incorporation have been issued to the Bell Hosiery Mills, of Suffolk, Va., the capital stock being $10,000, with privilege of increasing to $25,000. This company will erect a building and install an equipment of machinery for manufacturing hosiery and possibly other kinds of knit goods. It has purchased a site for the building. The company's officers are: R. H. Rawles, Pres.; John H. Mitchell, Vice-Pres.; Arthur Woolford, Secy.; James L. Bell, Treas. and Gen. Mgr. These officers and John M. Butler, H. M. Bruce and William Briggs are the Directors.

FAIRMONT, W. VA.—A bottle factory will be erected here, it is stated. The plant will be built on ten acres by M. J. Owen, of Toledo, Ohio, will have a capacity of 400,000 gross or nearly 58,000,000 bottles annually. Completed, the plant will cost more than $2,000,000. Employment will be given 1,000 people.

WARRENTON, N. C.—The Pack Mfg. Co., of Warrenton, N. C., has completed arrangements for building and equipping its mill. It has engaged J. E. Sirrine, of Greenville, S. C., as Arch.-Engr. in charge and will install about 5,000 spindles for manufacturing cotton yarns. This textile machinery has not been ordered, but the contracts will be signed soon. The construction of a warehouse has begun and the construction of the mill building will be begun at once. This latter structure will be one story, 195 × 132 ft., and will have a monitor roof. The company's president is Thomas Peck.

CONCORD, N. C.—The Magnolia Mills Co., of Concord, N. C., will build an additional structure, 50 × 70 ft., in order to provide space for the installation of a slasher and other machinery. This company has 1,800 ring spindles operated by electric power.

ROCKINGHAM, N. C.—The Entwistle Mfg. Co., of Rockingham, N. C., has awarded contract to W. J. STEPHENSON & SON, of Rockingham, for the erection of its mill building. This structure is to cost $64,000 and it will be equipped with 40,000 spindles, 1,000 looms and other machinery necessary in the production of cotton cloth. This company is among the new enterprises reported during the summer, when it was organized with a capital stock of $500,000. Its officers are as follows: William Entwistle, Pres.; W. B. Cole, Vice-Pres. and Gen. Mgr.; George P. Entwistle, Secy.-Treas. These are experienced cotton manufacturers, being executive officers of the Pee Dee Mfg. Co., which operates a 15,500-spindle and 700-loom mill at Rockingham. J. E. Sirrine, of Greenville, S. C., has been engaged as Arch.-Engr. for Entwistle plant. Noted on Oct. 14.

EDGEFIELD, S. C.—The Beaver Dam Mill, of Edgefield, S. C., has completed all arrangements for its increase of equipment. It will add 5,000 spindles and accompanying machinery, which are expected to be in operation within 60 days. An additional building is being erected to accommodate this equipment. It is 80 × 80 ft. and will cost about $6,000. The machinery will cost about $50,000. The mill's present equipment is about 5,000 spindles and 328 broad looms. J. E. Sirrine, of Greenville, S. C., is Engr.-in-Charge of the improvements.

EASLEY, S. C.—E. H. Shanklin, Supt. of the Easley Cotton Mills, of Easley, S. C., has incorporated a company to undertake the establishment of a mill. His company is named the Alice Mills, and it is capitalized at $250,000. E. H. Shanklin, M. J. Geer, W. M. Hagood and W. C. Smith are the incorporators.

COVINGTON, GA.—It is proposed to build another cotton factory at Covington, Ga., and plans are on foot for the organization of a company for this purpose. The capital stock is to be $100,000, with privilege of increasing when advisable. The promoters are D. A. Thompson, W. T. Cohen, C. G. Smith, J. L. Calloway, T. G. Callaway, Luke Robinson, E. W. Fowler, C. H. White, C. S. Thompson and others.

NEW ORLEANS, LA.—D. J. HAYES, of Houston, Tex., has secured the contract for and will erect a mill for the Rickert Rice Mills at New Orleans. This mill is to have a capacity of 4,000 bbls. per run of twelve hours. It will be built of reinforced concrete and is to be modern and complete in every respect. Mr. Hayes expects to begin the work of construction on the new mill Nov. 1.

KNOXVILLE, TENN.—The Foster Bros. Barnett Co., of Knoxville, Tenn., has been incorporated with a capital stock of $30,000. Its incorporafors are W. E. J. Foster, Sander Foster, S. M. Foster, James I. Foster and W. H. Barnett. The purpose is said to be the manufacture of cotton and woolen goods, but no details are stated.

NASHVILLE, TENN.—The Warioto Cotton Mills, of Nashville, Tenn., probably will increase the equipment to about 25,000 spindles and 675 looms, for the production of Brown sheetings. The company is operating 20,000 ring spindles and 540 broad looms on the production of the same class of goods. It is stated that about $50,000 will be expended for the new machinery. J. B. Morgan is Pres.

MIDDLETOWN, OHIO.—George M. Verity, of Middletown, Pres. of the American Rolling Mill Co., has announced that the company has decided on plans for a new plant to cost $3,000,000. Middletown, Hamilton, Zanesville, Cleveland, Ashtabula and Toledo are being considered as locations, but Middletown is preferred. The plant will employ 1,000 to 1,200 men, and will consist of an open-hearth steel plant, blooming mill, bar mill, jobbing mills, plate mill and sheet mills.

CLEVELAND, OHIO.—A $75,000 permit has been issued by W. S. Lougee, Bldg. Insptr., for a factory for the Buckeye Electric Co. The general contract has been awarded to SAMUEL AUSTIN & SON CO., 4401 Broadway, Cleveland. The structure will 265 × 122 ft. in size and erected at Hough Ave. N. E. and East 43d St.

The Peerless Motor Car Co is spending $10,000 on another of its buildings to become part of its group on Quincy Ave. S. E.

YOUNGSTOWN, OHIO.—The Block Light Co., whose plant is located in the Crab Creek District, adjoining the plant of the General Fireproofing Co., has plans for the doubling of its plant.

GARY, IND.—A structural steel plant is to be built at Gary, Ind., as soon as the American Bridge Co., 50 Church St., New York, one of the subsidiary companies of the United States Steel Corporation, can complete the details of the work. It is announced also that the Illinois Steel Co., also a Steel Corporation subsidiary, will erect a structural steel plant at the same place. According to the plans already made the American Bridge plant will have an initial capacity of 10,000 tons a month, which will be doubled in time to take care of the company's business in the West. The principal plant of the company is located at Ambridge. It is to relieve congestion there and prepare for the steel business expected next year that the company has decided to make the improvement at Gary. See also Chicago, Ill.

CHICAGO, ILL.—It is stated that the Illinois Steel Co. has decided to enlarge the structural steel mills at South Chicago so that they will be able to turn out from 40 to 45% more material. The new mills will be devoted to the manufacture of beams, channels, angles, etc. When the improvements are completed the South Chicago plant will be able to deliver from 35,000 to 40,000 tons per month. See also Gary, Ind.

EAU CLAIRE, WIS.—The Eau Claire Trunk Co. has purchased the triangular lot in the Ninth Ward bounded by Mill and Beach Sts. and First Ave., with the view of erecting a factory building next spring.

SUPERIOR, WIS.—The Russell Creamery Co. is to erect a building costing approximately $35,000.

ELAND, WIS.—Joseph and John Walfinger, woodenware manufacturers of Dundas and Brillion, Wis., are establishing a $30,000 woodenware factory at Eland.

FORT MISSOULA, MONT.—Bids are asked by Maj. A. B. Shattuck, Q. M., until noon, Nov. 17, for the construction, steam heating, plumbing and electric wiring of a reinforced-concrete bakery.

ST. LOUIS, MO.—By the erection of a 2-story building adjoining its present ice plant, at Second and Arsenal Sts., the Anheuser-Busch Brewing Association will by next April increase the capacity of the plant from 1,000 tons a day to 1,500 tons. Plans for the new building have been approved by August A. Busch, Vice-Pres. of the association. They were drawn by Wildman & Walsh, Archs., Wainwright Bldg., St. Louis, and call for a structure 100 × 200 ft. The supplementary plant will be equipped with modern machinery and will cost $200,000.

HOUSTON, TEX.—The South Houston Reginning & Mfg. Co. will be organized at Houston, Tex., for the purpose of establishing a plant in South Houston. This enterprise is being promoted by J. C. Garner and T. M. Reynolds, who will capitalize it at $50,000. It will include the installation of machinery for cleaning, reginning and relinting old cotton and manufacturing cotton batts and quilts. The company will erect a 40 × 100-ft. building to hold the machinery.

GONZALES, TEX.—The Gonzales Cotton Mills Co., of Gonzales, which was incorporated recently with a capital stock of $100,000, continues the established plant of the same title heretofore operated as a partnership. This company is operating about 5,000 ring spindles and 150 looms, to which it proposes to add about 2,200 spindles and 50 looms, with hydro-electric power to match. It is probable that the company will not undertake the installation of its new machinery until early in 1910.

AUSTIN, TEX.—The Penitentiary Board has decided to take steps toward the erection of the cotton mill for which the 31st Legislature made an appropriation of $100,000. The new mill will probably be located at Rusk and the old mill at Huntsville abandoned. In making this appropriation it was the Legislature's purpose to provide for a mill to manufacture twine rope, wrapping for cotton and sacking material out of cotton. The Board will follow out this idea except as to bagging, the demand for that commodity not being sufficient at this time to warrant its production. It is probable also that better arrangements than those at present in effect will in this connection be made for the production of the clothing, bedding and underwear material needed by the convicts.

PORTLAND, ORE.—A sawmill is to be built in Portland by the Burlington Lumber Co. on the line of the United Railways, at Burlington. The plant is to cost $50,000, and will have a capacity of 100,000 ft. Announcement of the project was made by Geo. P. Holman, a lumber dealer of Salt Lake City and Portland, who has organized the local operating company and has financed the construction work.

LA TUQUE, QUE.—Representatives of Brown Bros., of Berlin, N. H., and Portland, Me., paper manufacturers, who control the Quebec & St. Maurice Industrial Co., have been in consultation with the provincial authorities at Montreal, and it is announced by the Montreal "Herald" that plans were perfected for the immediate erection of pulp and paper mills at La Tuque, Que., to cost $2,000,000.

NIAGARA FALLS, ONT.—The International Acheson Graphite Co. will build a 50 × 105-ft. addition to its plant. The contract for same has been let to W. S. HOMAN, of this city. About 400 tons of structural steel will be used in construction.

NIAGARA FALLS, ONT.—The general contract has been awarded to W. H. HOMAN by the International Acheson Graphite Co. for erection of a 50 × 150-ft. brick and steel addition to its plant; 400 tons of structural steel will be required.

SYDNEY, N. S.—The CANADA FOUNDRY CO., of Toronto, Ont., has secured a contract from the Dominion Steel Co., of Sydney, N. S. The work to be done is the extension of the Bessemer blast furnaces and plants, with two open hearth furnaces.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

*SUBWAYS.—Auburn, N. Y.—See under Streets and Roads.

SUPPLIES.—New York, N. Y.—Bids will be received by the Department of Water Supply, Gas and Electricity until 2 p. m., Nov. 10, for furnishing lumber, bar iron, machinery steel, tool steel, packing, etc.

FIRE ENGINES.—New York, N. Y.—Bids are asked by the Fire Department, until 10.30 a. m., Nov. 5, for furnishing and delivering two second-size steam fire engines and two fourth-size steam fire engines.

CABLE.—Cincinnati, Ohio.—Bids will be received until Oct. 29 by Elmer G. Prior, Secy. Dept. Public Safety, for furnishing and delivering underground cable for the telephone and signal circuits of the Fire Department.

*DITCH.—Clinton, Ill.—Bids are asked by the Nixon Special Drainage Commissioners, at Clinton, until 1 p. m., Nov. 13, for cleaning and enlarging main ditch and lateral No. 1. Estimated quantity, 107,000 cu. yds. W. J. Day, Engr., Bement, Ill.

TRUCKS, ENGINES.—New York, N. Y.—NEPTUNE B. SMYTH, 1123 Broadway, New York, has been awarded contract by the Fire Department, at $87,681, for furnishing and delivering three combination hook and ladder trucks and chemical engines.

PNEUMATIC PIPE SYSTEM—Charleston, S. C.—Bids are asked until 11 a. m., Nov. 27, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for extending the pneumatic pipe system at Charleston Navy Yard. Specifications are on file at office of Engineering News, New York.

RAILINGS, ETC.—New York, N. Y.—Bids were received as follows by the Park Board, Henry Smith, Pres., on Oct. 21, for furnishing and erecting iron railings around the grass plots in Broadway, between 104th and 110th Sts., Boro. of Manhattan: Anchor Post Iron Works, 165 Broadway, $9,498; Robt. R. Fox, $25,000.

STONE, New York, N. Y.—Contract for furnishing and delivering 2,000 tons of 1½-in. and ¾-in. broken stone and screenings of trap rock or Staten Island syenite has been awarded by George Cromwell, Pres. of the Borough of Richmond, to THOMAS F. CARLIN, West New Brighton (S. I.), N. Y., at $3,744.

LEVEE.—Sacramento, Cal.—Bids will be received until Nov. 8 by M. J. Desmond, City Clk., for improving the Sacramento River front levee from the foot of the north trestle approach of the Southern Pacific Co.'s railroad bridge, northerly to the north levee. No bids were received for this work on Oct. 4. Noted on Oct. 14.

FOUNDATION, DOCKS, ETC.—Buffalo, N. Y.—Bids will be received until Nov. 1 by Francis G. Ward, Comr. Dept. Pub. Works, for constructing concrete docks, foundation for yacht club house, moving club house to new foundation near the foot of Porter Ave. and for constructing a swimming basin at the foot of Jersey St.

DREDGING.—Ft. Moultrie, S. C.—Bids were received, Sept. 27, by the Construction Quartermaster, U. S. A., at Ft. Moultrie, for dredging channel from Q. M. wharf, Ft. Monroe, to Charleston Harbor. Contract was awarded, on Oct. 23, to the SAVANNAH DREDGING CO., Savannah, Ga., at 15.9 cts. per cu. yd.; total, $40,000.

CABLE.—Rochester, N. Y.—Bids were received as follows on Oct. 20 by the Board of Contract and Supply for furnishing 7,500 ft. of 8-conductor armored cable for fire alarm system: The STANDARD UNDERGROUND CABLE CO., 50 Church St., New York, 13.3 cts. per ft. (awarded contract); John R. Roebling's Sons Co., 117 Liberty St., New York, 14 cts.

*STONE.—Savannah, Ga.—Bids were received as follows by Col. Dan C. Kingman, Corps. Engrs., U. S. A., Savannah, on Oct. 20, for furnishing and placing stone for raising low places in jetties at entrance to Cumberland Sound, Ga., and Fla. (estimated quantity, 7,000 tons): P. N. Strong, Savannah, $2.50 per ton; S. R. Rosoff, New York, $3.60 per ton; R. G. Ross, Jacksonville, Fla., $2.74 per ton.

DRAINAGE DITCHES.—Liberty, Tex.—Bids will be received by J. E. Berry, Chn. Drainage Comrs. of old River Drainage District, Liberty County, No. 1, until noon, Dec. 1, for excavating approximately 510,000 cu. yds. of earth and the necessary bridges and culverts for crossing the ditches excavated. J. M. Howe, Room 204, Commercial National Bank Bldg., Houston, Tex., is Drainage Engr.

PLANKING.—Brooklyn, N. Y.—Bids were received as follows, on Oct. 21, by the Department of Bridges, New York, for furnishing and delivering, creosoted yellow pine planking to the Brooklyn Bridge: Barber Asphalt Paving Co., 30 Church St., $6,949; Nykoff Pipe & Creosoting Co., $8,100; A. C. Jacobson & Son, 81 Bridge St., Brooklyn, $7,612; Eppinger & Russell Co., 165 Broadway, $7,155.

IRON, STEEL, ETC.—New York, N. Y.—Bids were received as follows, on Oct. 18, by Allen N. Spooner, Comr. of Docks, for Contract No. 1187, for furnishing all the labor and materials required for furnishing and delivering iron, steel, machinery and miscellaneous tools and supplies and divers' supplies: J. Edward Ogden, 147 Cedar St., $78,590; Manhattan Supply Co., 127 Franklin St., $81,791; J. K. Larkin, 290 Broadway, $86,800; Hugh C. Fox, 108 Fulton St., 90,999.

COMFORT STATION.—New York, N. Y.—Bids were received on Oct. 21 by the Park Board, Henry Smith, Pres., for the erection and completion of comfort stations and shelter for women and children, located in Chelsea Park, Ninth to Tenth Aves., 27th to 28th Sts., Manhattan. Lowest bidder was as follows: For either white Clemsford granite, white Concord granite or white Maine granite, to THOS. J. BUCKLER CONSTRUCTION CO., 45 West 42d St., at $29,200.

*DITCH WORK.—Chicago, Ill.—The F. C. Austin Drainage Excavator Co., Railway Exchange, Chicago, announces that it is "in close touch with a contractor who has recently been awarded very large contract for construction irrigation ditches. The Austin drainage excavator is exactly suited for this work. A large amount of it will be sublet, and we will assist any responsible contractor in securing a portion of the business if he agrees to use our machinery. Remember, we sell or lease."

*RIPRAP GROINS.—Mobile, Ala.—Bids were received by Maj. H. Jervey, Corps. Engrs., U. S. A., Mobile, on Oct. 18, for construction of riprap groins for sea walls at Fort Morgan and Fort Gaines, Ala. Bids in detail were as follows: (a) John and Henry Monk, Pensacola, Fla.; (b) W. C. Spotswood, Mobile, Ala.; (c) Charles G. Ollinger, Mobile, Ala.: 14,500 net tons riprap groins, hand-laid stone, (a) $4.28 per ton; (b) $3.75; (c) $5.85. Total, (a) $62,060; (b) $54,375 (recommended for acceptance); (c) $84,825.

FUEL OIL.—Midway, Cal.—The "Twenty-five Oil Co." operating in the Midway field, has entered into a contract with the Associated Oil Co., Kohl Bldg., San Francisco, agreeing to deliver to the latter company 4,000,000 barrels of oil at 50 cents. The oil is to be delivered as rapidly as it can be produced, and the Twenty-five Co., which now has ten producing wells, will begin active development of its holdings, which are among the most valuable in the State. Press reports state that the Associated Co. may extend the pipe lines from the McKittrick to the Midway field in order to transport the oil purchased under this contract.

*DREDGING.—Trenton, N. J.—Bids were received by the Commissioner of Inland Waterways, on Oct. 19, for dredging (about 145,000 cu. yds.) a section of the proposed inland waterway from Cape May to Bay Head, N. J., near Holly Beach. Bids were as follows: The Hill Dredging Co., Atlantic City, N. J., 12¼ cts. per cu. yd.; time, six months. Howard K. Stokes, New York, 13¾ cts. per cu. yd.; time, four months. Ottens Dredging Co., North Wildwood, N. J., 13¾ cts. per cu. yd.; time, six months. Rickards Dredging Co., Philadelphia, 14 cts. per cu. yd.; time, eight months. American Dredging Co., Philadelphia, 13.8 cts. per cu. yd.; time, June 15, 1910.

TIMBER SALE.—Toronto, Ont.—Bids will be received until noon, Nov. 10, marked "Tenders for Point Grondine Indian Reserve," by McCarthy, Osler, Hoskins & Harcourt, Solicitors for the vendors, Toronto, Ont., for all the cherry, birch, maple, spruce, hemlock and other classes of timber, estimated to contain over 50,000,000 sq. ft. of hardwood, and over 50,000,000 ft. of soft wood, together with all the improvements on the limits, covered by Ontario timber licenses Nos. 5 and 8, and Dominion license No. 62. Area about 88 sq. miles. This tract is situated on the Georgian Bay at Beaverstone River, and is particularly suited for a charcoal, wood alcohol, hardwood flooring or veneer proposition.

DRY DOCK.—New York, N. Y.—Six contracting firms have been invited by the Secretary of the Navy to submit bids for the completion of the dry dock at the Brooklyn navy yard, the contract for which recently was annulled because the builder failed to make satisfactory progress. The Secretary preferred this method to that of general competition, believing that it would result in getting someone to complete the dock without fail, the department having twice annulled the contract awarded, as a result of open competitions. The bids will be opened on Oct. 30. The dock is somewhat more than 15 per cent. completed. Naval officials are anxious that there shall be no further unnecessary delay in the prosecution of the work, as the dock is badly needed. Bids were asked until Jan. 18, as noted last week.

*DREDGING.—Boston, Mass.—Bids were received on Oct. 22 by the Board of Harbor and Land Commissioners, Boston, for dredging to a depth of 35 ft. at mean low water the berth on the easterly side of the Commonwealth Pier at South Boston Flats and an area lying between this pier and berth and the main ship channel. There will be about 350,000 cu. yds. of material, scow measurement, to be dredged. Frank W. Hodgdon, Ch. Engr. Bids were as follows: Eastern Dredging Co., 247 Atlantic Ave., Boston, 15.3 cts. per cu. yd.; Daly & Homans Dredging Co., Ogdensburg, N. Y., 20 cts.; J. S. Packard Dredging Co., 31 Market St., Providence, R. I., 22.9 cts.; Maritime Dredging Co., 78 Broad St., New York, 26 cts.; G. H. Breymann & Bros., Toledo, Ohio, 21 cts.; J. P. O'Riordan, 6 City Square, Charlestown, Mass., 17¼ cts.

HARBOR IMPROVEMENTS, ETC.—Ashtabula, Ohio.—The voters of this city have authorized an issue of $390,000 municipal bonds to straighten and extend the channel of the harbor. The improvement is to secure the location at Ashtabula of the new shipyard and dry dock of the Great Lakes Engineering Co., of Detroit. The company has given $500,000 bond to install a $1,000,000 plant, and its agreement with the Chamber of Commerce is that work is to be commenced at once. The company's present plant at St. Clair, Mich., is to be removed to this place, and its capacity more than doubled, provisions being ample for the construction and repair of the largest type of fresh water craft. The new plant will occupy 60 acres just above the present head of navigation and along the lines of the Lake Shore & Michigan Southern and the Pennsylvania R. R. companies, which transport the iron ore from this harbor to the Pittsburg district. The plans contemplate 20 buildings and two dry docks.

LEVEES.—New Orleans, La.—Bids for the construction of a number of important levees will be opened at the office of the Board of State Engineers, New Orleans, at noon, Oct. 28. Three of the contracts are to be let by the Fifth Louisiana Levee District, one by the Pontchartrain Levee District and eleven by the State. Included in those to be built by the State will be a new levee at Southport, just above the city. The levees to be built by the State are: On the Mississippi River—Upper Green levee, Concordia parish, new levee, 265,000 cu. yds.; Southport levee, Jefferson parish, new levee, 60,000 cu. yds.; Sims levee, Ascension parish, enlargement, 12,000 cu. yds.; Stella levee, St. Bernard parish, new levee, 25,000 cu. yds.; Felix Hingle levee, Plaquemines parish, new levee and revetment, 4,200 cu. yds.; Lee Rice to Clinton, Plaquemines parish, new and enlargement, 15,000 cu. yds.; Pelas to Buras Church, Plaquemines parish, new and revetment, 10,500 cu. yds.; Bulot, Plaquemines parish, new and revetment, 4,300 cu. yds.; New Canal, Plaquemines parish, enlargement, 7,000 cu. yds.; Baptiste Collette Bap, Plaquemines parish, enlargement, 7,000 cu. yds. On Red River—Coco Point levee, Avoyelles parish, new levee, 30,000 cu. yds.

The levees to be built by the Fifth Louisiana Levee District are: Point Lookout Spur, East Carroll parish, on Mississippi River, 20,000 cu. yds.; Hard Times Spur, Tensas parish, on Mississippi River, 25,000 cu. yds.; Sycamore levee, Concordia parish, Mississippi River, 100,000 cu. yds.

The Pontchartrain Levee District will call for bids for the Darrowville levee, in Ascension parish, new levee; contents, 40,000 cu. yds.

EXAMINATIONS.

*SUB-INSPECTOR.—Boston, Mass.—A competitive examination will be held Nov. 8 to fill the position of sub-inspector (construction work), at $4 a day. For further information, address "Commandant, Navy Yard, Boston, Mass."

JUNIOR ELECTRICAL ENGINEER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Nov. 23-24, to secure eligibles from which to make certification to fill a vacancy in the position of Junior Electrical Engineer in the Technologic Branch of the Geological Survey, at a salary ranging from $960 to $1,200 a year, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interests of the service to fill the vacancy by promotion, reinstatement or transfer. Age limit, 21 years or over. Application form 1312.

SUPERINTENDENT OF HIGHWAYS.—Albany, N. Y.—Under the Civil Service rules a competitive examination for the position of County Superintendent of Highways, Westchester County, at $2,500 a year, will be held on Nov. 13. Open only to men at least 21 years of age, citizens of the United States, and legal residents of Westchester County. The duties of the position are to have general charge of all highways and bridges, and general supervision of constructing, improving and repairing bridges and town highways in the county. Candidates should have thorough practical experience in the actual construction and maintenance of highways, and should be familiar with the highways of the county and their needs, and with the best means and materials available for their improvement. Persons desiring to enter this examination must execute application form E-10, and should file it in the office of the Commission on or before Nov. 6. Application blank can be obtained on request.

INDUSTRIAL NOTES.

MR. DEWITT C. SMITH, formerly Manager Paint Department of Joseph Dixon Crucible Co., has resigned, and has become associated with the Detroit Graphite Co., as Manager of their Philadelphia branch, with headquarters in the Land Title Bldg., that city.

ISZARD-WARREN COMPANY, Inc., announce that on Nov. 1 they will open a new 4-story building at 136 North 12th St., Philadelphia. This building has been erected to accommodate the growth of the business and will contain the entire manufacturing plant, salesrooms and offices.

THE PARKER BOILER CO., Penna Bldg., Philadelphia, Pa., reports the receipt of the third order from Astoria Veneer Mills, Long Island City, N. Y., calling for two 346-HP. boilers. The company has also received an order from Penna. Forge Co., Philadelphia, for one 104-HP. boiler.

MR. L. G. KIBBE has resigned as Treasurer of the Wheeler Condenser & Engineering Co., of Carteret, N. J., in order to take an active part in the management of the Warren Steam Pump Co., of Warren, Mass. Mr. Kibbe will be located at the head offices of the latter company at Warren.

A FIRE AT DAYTON, OHIO, Oct. 20, destroyed the plants of the Dayton Computing Scale Co., Pasteur-Chamberlain Filter Co., Graves & Marshall Foundry Co., the freight depot of the Cleveland, Cincinnati, Chicago & St. Louis Ry., and other property. The loss is estimated at $400,000.

THE CONTRACT for constructing the 500-ft. reinforced-concrete bulkhead and traveling crane supports at Sparrow's Point, Baltimore, Md., for the Maryland Steel Co., has been awarded to the Raymond Concrete Pile Co., of New York and Chicago, by whose engineering department the work was designed.

THE FIRM OF GUERBER, LAVIS & CO. has been formed to do business as general and consulting engineers with general offices in the Hudson Terminal Building, 50 Church St., New York. The following gentlemen are associated in the company: F. S. Guerber, F. Lavis, F. W. Dalrymple, W. R. Marsden, J. C. Larsen, C. W. Fleming, E. Schroeder.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 156.

SUBWAYS AND PAVING.

City of Auburn, N. Y.

Sealed proposals will be received until 8 o'clock P. M., November 16, 1909, by C. A. Koenig, Mayor, for the building of subways and the construction of an asphalt pavement in Hoopes Avenue. The approximate quantities are:

Subways.

2,150 lin. ft. 4-duct tile; 100 lin. ft. straight iron pipe laterals; 2,150 lin. ft. fibre duct laterals; 40 iron pipe bends; 4 double manholes.

Paving.

3,020 sq. yds. asphalt; 1,840 lin. ft. straight curb; 185 lin. ft. curved curb; 280 lin. ft. headers; a price will also be received on 2,025 lin. ft. concrete curb and gutter.

Each sealed proposal for subways must be accompanied by either a certified check or bond in the sum of $1,000.

Each proposal for paving must be accompanied by a certified check in the sum of $1,000 or a bond in the penal sum equal to one-half the gross amount of the contract.

Work upon the subways will be required to be begun as soon after the execution of the contract as the City Engineer may deem advisable. Work on the paving will be begun not later than May 1, 1910, or at such date thereafter as the weather conditions, in the judgment of the City Engineer are suitable. Contractors may bid upon either or both of the proposed improvements.

Further information, blank proposals, bonds, specifications, etc., can be obtained on application from W. Thomas Wooley, City Engineer.

The Common Council reserves the right to reject any or all proposals.

J. S. HANLON,
City Clerk.

SEWERS.

Roselle Park, N. J.

Sealed proposals will be received by the Mayor and Council of the Borough of Roselle Park, N. J., until 8.15 P. M., November 19, 1909, at the Borough Hall, for the construction of extensions to the sewerage system of the said Borough, in accordance with plans and specifications therefor on file in the office of the Borough Engineer.

The work includes the construction of the following:

Section 1:
9,609 feet of 8" pipe.
1,284 feet of 10" pipe.
3,308 feet of 12" pipe.
46 Manholes.
11 Flush tanks.

Section 2:
14,614 feet of 8" pipe.
1,380 feet of 10" pipe.
54 Manholes.
18 Flush tanks.

Proposals will be received for each section separately. Proposals for Section 1 must be accompanied by a certified check for $3,000, and proposal for Section 2 by a certified check for $2,000. Plans and specifications may be seen, and blank forms of proposal obtained at the Office of the Borough Engineer, No. 847 Fifth Avenue, New York City, and Roselle Park, N. J.

The right is reserved to reject any or all bids.

A. M. WOODRUFF,
Borough Clerk.
J. WALLACE HIGGINS,
Borough Engineer.

SEWERAGE SYSTEM.

East Providence, R. I.

Sealed proposals will be received by the Board of Sewer Commissioners for Watchemoket Fire District of the Town of East Providence, Rhode Island, at the Council Chamber of the said town at 7.30 P. M., Tuesday, November 16th, 1909,

Said proposals to cover the furnishing of materials and the performance of labor required for the construction of certain sanitary sewers, being a part of a general sewerage system shown by plans and specifications now on file in the Town Hall.

Copies of the specifications and plans may be seen also at the office of the engineers, City-Wastes Disposal Company, 156 Fifth Avenue, New York.

Approximately, the proposed work consists of:

About 64,000 feet of vitrified pipe sewers, 8-inch to 24-inch, laid complete, with manholes and flushtanks.

About 850 feet of iron pipe sewers, siphons and outlet.

A small indeterminate amount of agricultural drain-tile laid in sewer trench.

Each bid must be accompanied by a certified check for Three Thousand Dollars ($3,000), as a guarantee that the bidder, if his bid be accepted, will enter into contract and execute the required bond.

Each bid must be made on blank forms obtained from the Clerk of the Board or from the engineers.

The District reserves the right to reject any or all bids.

All bids must be enclosed in sealed envelopes, marked "Proposal for the Construction of Sewers, etc.", and each must be enclosed in a second envelope addressed to

MERRILL R. COOMBS, Clerk,
Board of Sewer Commissioners, Watchemoket Fire District, East Providence, R. I.
CITY-WASTES DISPOSAL COMPANY,
Engineers,
156 Fifth Avenue, New York City.

REMOVAL OF CONCRETE BRIDGE.

Peoria, Ill.

Sealed bids will be received at the Office of the Commissioner of Public Works, Room 306 City Hall Building, Peoria, Illinois, up to twelve (12) o'clock noon, November 6th, 1909, for removing certain portions of the concrete bridge across the Illinois River, at the foot of Bridge Street.

Plans and specifications for the above work can be had at the Office of the Commissioner of Public Works, Room 306 City Hall Building.

Bidders will be required to furnish a bond in the sum of twice the amount of the contract; same to be approved by the Commissioner of Public Works.

A certified check, made payable to the order of the Commissioner of Public Works, for ten (10) per cent. of the amount of the bid must accompany the proposal.

The right is herewith reserved to reject any or all bids or any part of any bid.

GEORGE F. SIMMONS,
Commissioner of Public Works.

Specifications and blue-prints are on file at the office of Engineering News, New York.

DITCH WORK.

Clinton, Ill.

Bids will be received at the County Clerk's office at Clinton, Ill., by the Nixon Special Drainage Commissioners until Nov. 13th, 1909, at one o'clock P. M. for the cleaning and enlarging of the Main Ditch and Lateral No. 1 of the said district. Excavation is about 107,000 cu. yds. Certified check to accompany bids, $1,000.00.

W. J. DAY, Engineer,
Bement, Ill.

FOR SALE.

No. 4 Champion Crusher

with engine, elevator and screens cheap. Also one Aveling & Porter steam road roller, several steam shovels, and two road machines.

We want to buy several 5-ton steam rollers.

LAWRENCE MACHINERY & SUPPLY CO., 18-11 Arcade Bldg., Philadelphia.

WANTED.

A Thew No. 0 ⅝ Yard Dipper

Machinery must be in first-class condition throughout. Would prefer on traction-wheels.

Address M. J. KANE, 9 Wade St., Worcester, Mass.